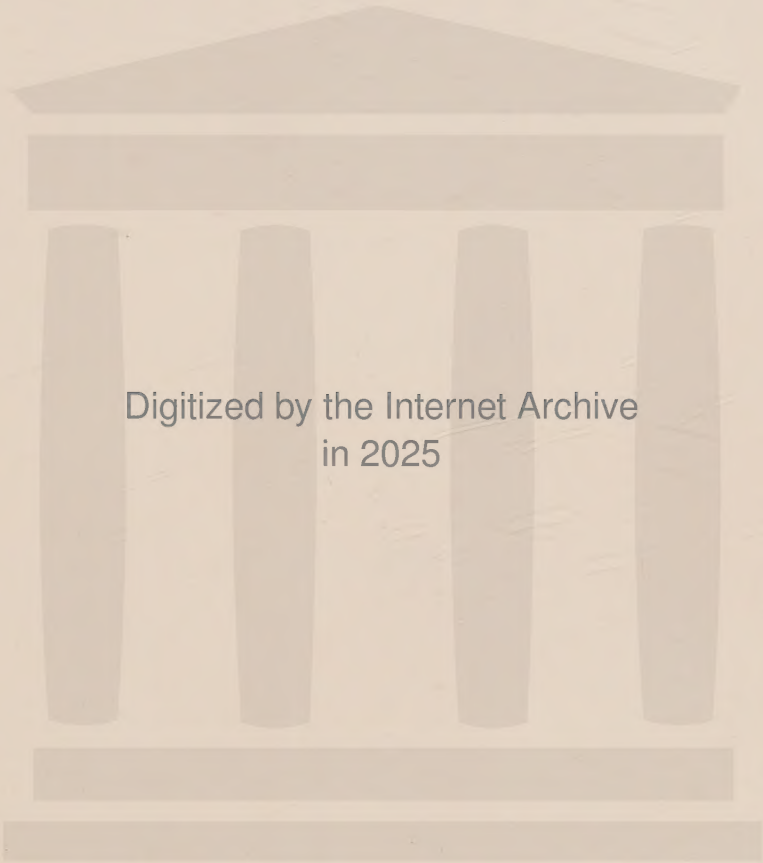
HERB


Digitized by the Internet Archive
in 2025

https://archive.org/details/syllogefungorumo0003pasa

SYLLOGE

FUNGORUM

OMNIUM HUCUSQUE COGNITORUM.

DIGESSIT

P. A. SACCARDO

Vol. III.

PATAVII
XV DECEMBRIS MDCCCLXXXIV
SUMPTIBUS AUCTORIS
TYPIS SEMINARII

1884

SYLLOGE

SPHÆROPSIDEARUM

ET

MELANCONIEARUM

OMNIUM HUCUSQUE COGNITARUM.

DIGESSIT

P. A. SACCARDO

PATAVII

XV DECEMBRIS MDCCCLXXXIV

SUMPTIBUS AUCTORIS

TYPIS SEMINARII

SPHÆROPSIDEÆ Lév. reform. *)

Sacc. Mich. I. 133 et II. p. 3.

Sphæropsideæ, Phyllostictеæ et *Cytisporaceæ* Fr. (excl. gen.). — *Sphæropsideæ* et *Sphæronemeæ* Kx. — *Sphæronemeæ* Berk. — *Sphæronemeæ, Sporocadeæ, Phragmotrichaceæ, Sphæriaceæ* etc. Corda p. p. — *Perisporiaceæ, Thyreomycetes, Excipulinæ, Nemasporeæ, Sporocadeæ* etc. Bon. p. p. — *Excipuleæ, Pilidieæ, Actinothyrieæ, Sphæronemeæ* etc. Payer p. p.

Fungi perithecio instructi, ascis carentes, sporulasque **) (*stylosporas* et *spermatia* auctorum) intra perithecium basidiis plus vel minus manifestis suffultas gerentes.

Fam. 1. **Sphærioideæ** Sacc.

Perithecia membranacea, carbonacea v. subcoriacea, atra (numquam carnosula, læticoloria) globosa, conica v. lenticularia, integra (h. e. non dimidiata), immersa v. superficialia.

Sect. 1. **Hyalosporæ** Sacc.

Sporulæ globosæ, ovoideæ v. suboblongæ, rectæ v. curvulæ (allantoideæ) continuæ, hyalinæ.

---

*) Rationes, quæ suadent fungos inferiores, nempe *Sphæropsideos, Melanconieos* et *Hyphomycetes* in libro proprio pleneque pertractare, jam exposui in Mich. II. p. 2. omnesque fere mycologi in hac re nunc consentiunt. Horum consilio fretus improbum laborem aggredior, hoc saltem sperans quod, post editam Syllogen, numerus duplicatarum specierum, quo scientia obruitur, in posterum valde diminui possit.

**) Quum limes nullus certus sit inter *spermatium, stylosporam* v. *clinosporam* Sphæropsidearum, nomen simplex et jamdudum, etsi subinde alio sensu, adhibitum *sporula* pro cohorte tota sine distinctione usurpavi. Hinc hujuscemodi Fungorum organa sic distinguenda puto:

Spora, asco carens, in fungis perfectis: Hymenomyceteis, Gasteromyceteis, Phalloideis, Myxomyceteis, Ustilagineis.

Sporidium, asco inclusum, in fungis perfectis: Ascomyceteis.

Sporula, asco carens, in fungis imperfectis perithecigeris: Sphæropsideis.

Conidium, asco carens, in fungis imperfectis sine perithecio: Melanconieis et Hyphomyceteis.

Quoad Uredineas et Phycomyceteas, generationibus variis pollentes, varia quoque sporarum nomina jam usurpata sunt, quæ servanda.

Clavis analytica generum.

§ Simplices (peritheciis discretis).

† Perithecia inermia, calva.

* Perithecia areolis plantarum decoloratis innata, h. e. maculicola.

Phyllosticta. Perithecia punctiformia, lenticularia, poro pertusa.

** Perithecia non maculicola.

×) Sporulæ solitariæ (non concatenatæ).

A) Sporulæ muticæ.

a) Subiculum nullum.

α) Perithecia mutica v. papillata (non rostrata).

Phoma. Perithecia membranacea v. subcoriacea, papillata, subcutanea; basidia monospora, sæpe brevissima.

Aposphæria. Perithecia *Phomæ*, sed superficialia, subcarbonacea, exquisitius papillata.

Dendrophoma. Perithecia calva *Phomæ*, sed basidia ramulosa v. denticulata, pleiospora.

Asteromella. Perithecia minuta in maculas asteromatoideas dendriticas dense disposita.

Piptostomum. Perithecia carbonacea, globosa, demum superne circumscissa; nucleo celluloso-lobato (Transit ad Compositas).

Crocicreas. Perithecia superficialia, turbinata, carnoso-cornea, floccoso-fibrosa; basidia ramosa.

Pyrenotrichum. Perithecia superficialia, vertice demum circumscissa; basidia exquisite circinata.

Sclerotiopsis. Perithecia immersa, astoma, subcarnosula, sclerotiformia; basidia filiformia, 1-spora; sporulæ utrinque e latere acutæ.

Plenodomus. Perithecia semiimmersa, irregulariter dehiscentia, tuberculosa, sclerotioidea, intus subcarnosula; sporulæ utrinque obtusæ; basidia brevissima.

Mycogala. Perithecia superficialia astoma obtusa, dein irregulariter lacerata; nucleo mox pulveraceo; sporulæ globulosæ.

β) Perithecia rostellata.

Sphæronæma. Perithecia rostrata; sporulæ plerumque ad apicem rostri in globulum denique expulsa.

b) Subiculum præsens.

Chætophoma. Perithecia *Phomæ*, sed subiculo fumagineo v. asterineo innata; sporulæ ovoideo-oblongæ.

Asteroma. Perithecia minuta, conferta, fibrillis sæpius radiantibus atris adnata vel imposita; sporulæ ovoideo-oblongæ. (In plurimis fructificatio ignota).

Ypsilonia. Perithecia minuta subiculo asteromatoideo fusco imposita; sporulæ elongatæ 3-radiatæ.

Cicinnobolus. Perithecia minima, elongata, versiformia, subiculo oidico (proprio?) innata; sporulæ ovoideæ cirrose expulsæ.

B) Sporæ ciliatæ.

Neottiospora. Sporulæ ovato-fusoideæ, apice penicillato-setosæ.

XX) Sporulæ concatenatæ.

Sirococcus. Perithecia subcarbonacea, erumpentia v. superficialia, ostiolo obsoleto; sporulæ in catenulas subsimplices digestæ.

Peckia. Perithecia *Sirococci* (spuria?); sporulæ catenulatæ, reticulatim connexæ v. muco obvolutæ.

†† Perithecia aculeata v. setosa.

Muricularia. Perithecia aculeolis continuis simplicibus obsita; sporulæ oblongæ, sublobatæ.

Staurochæta. Perithecia aculeolis apice stellatis obsita; sporulæ ovoideæ.

Pyrenochæta. Perithecia erumpentia v. superficialia, setulis breviusculis variis ubique v. basi v. apice vestita; sporulæ oblongæ; basidia typice ramulosa. (Cfr. *Chætomella* inter *Phæosporas*).

Vernicularia. Perithecia setis longis erectis septatis vestita; sporulæ fusoideæ falcatæ, raro rectæ, basidia typice simplicia.

§§ Compositæ v. cæspitosæ (peritheciis stromate adnatis v. immersis).

Dothiorella. Stroma basilare; perithecia botryose aggregata, erumpentia; sporulæ oblongæ.

Rabenhorstia. Stroma globoso-truncatum, intus locellatum; sporulæ ovoideo-oblongæ, stipitatæ.

Fuckelia. Stroma globoso-pulvinatum, substipitatum, intus in locellos angulosos pallidiores (*Tuberis* ad instar) ubique partitum.

Placosphæria. Stroma applanatum, effusum, piceum, intus plus minusve distincte plurilocellatum, pallidius.

Fusicoccum. Stroma valseum v. verruciforme, molliusculum, intus inæqualiter multiloculare; sporulæ fusoideæ v. bacillares proportione majusculæ.

Cytosporella. Stroma valseum v. verruciforme, molliusculum intus inæqualiter pluriloculare; sporulæ globosæ v. ovoideæ, continuæ, subhyalinæ.

Cytospora. Stroma valseum v. verruciforme, molliusculum, intus inæqualiter multiloculare; sporulæ allantoideæ.

Ceuthospora. Stroma conico-truncatum, carbonaceum, intus typice pluriloculare; sporulæ bacillares.

PHYLLOSTICTA Pers. in Fr. S. M. II. 257, Sacc. Mich. II. p. 4. (Etym. *phyllon* folium et *stictos* punctatus). — Perithecia epidermide velata, lenticularia, tenuiter membranacea, poro sæpius amplo pertusa, punctiformia, areolas foliorum raro ramulorum decoloratas incolentia. Sporulæ exiguæ ovoideæ v. oblongæ, continuæ, hyalinæ v. chlorinæ; basidia minima v. nulla.

I. *In plantis dicotyledoneis arboreis.*

1. **Phyllosticta æsculina** Sacc. F. Gallici Ser. VI. n. 2261. — Ma- 1
culis amphigenis arescendo ochraceis, variis; peritheciis punctifor-

mibus, vix $^1/_{10}$ mill. d., atris; sporulis ellipsoideis, hyalinis, 9 ≃ 3; basidiis obsoletis.

Hab. in foliis adhuc vivis Æsculi Hippocastani, prope Rouen in Gallia (Letendre). — A *Ph. æsculicola* differt præcipue sporulis duplo majoribus.

2. **Phyllosticta Paviæ** Desm. 14 Not. 32, Kickx Fl. Flandr. I. 515. — Maculis indeterminatis, rufo-fuligineis, late flavido-marginatis; peritheciis epiphyllis, exiguis, sparsis vel confertis, nigricantibus, convexis dein depressis; sporulis cylindraceo-ellipticis, 2-guttatis 11–12 μ. longis. 2

Hab. in foliis Paviæ macrostachyæ, in Gallia et Belgio.

3. **Phyllosticta æsculicola** Sacc. Mich. I. p. 134. — Maculis vagis irregularibus, arescendo candidis, fusco-cinctis, epiphyllis v. petiolicolis; peritheciis punctiformibus, sparsis; sporulis tenuissimis, oblongis v. breve fusoideis, 4 ≃ $^3/_4$, hyalinis. 3

Hab. in foliis petiolisque Æsculi Hippocastani, in Italia boreali. — *Depazea æsculicola* Fr. sec. auct. est *Septoria*. Quid sit *Ascochyta Hippocastani* Lib. exs. n. 151, ignoro. *Phyllosticta Paviæ* Desm. omnino aliena est.

4. **Phyllosticta Laurocerasi** Sacc. et Speg. Mich. I. p. 153. — Maculis obsoletis v. subcircularibus candicantibus; peritheciis sæpe subconcentrice dispositis, punctiformibus, prominulis, olivaceo-fuscis; sporulis oblongo-cylindraceis, utrinque rotundatis, raro ad medium subconstrictis, 8–10 ≃ 3–4, sæpe 2-guttulatis, hyalinis. 4

Hab. in foliis dejectis Pruni Laurocerasi, Treviso, Conegliano, Aquileja in Ital. bor.

5. **Phyllosticta cerasella** Speg. Fung. Arg. Pug. III. n. 94. — Maculis nullis; peritheciis hypophyllis, minutis, 110–120, ostiolo impresso pertusis, membranaceis, contextu laxe parenchymatico, olivaceo; sporulis ellipticis v. elliptico-cylindraceis, medio non v. subconstrictis, rarius 1-septatis, granuloso-farctis v. guttulatis, 8–12 ≃ 3–4, hyalinis. 5

Hab. ad folia dejecta putrescentia Pruni Cerasi, in hortis prope la Recoleta in Argentina.

6. **Phyllosticta serotina** Cooke Grev. XII. pag. 26. — Amphigena; maculis orbicularibus, fuscis, linea obscuriore limitatis; peritheciis sparsis, punctiformibus minutis; sporulis elliptico-lanceolatis, hyalinis 12 ≃ 3. 6

Hab. in foliis Cerasi serotinæ, in Carolina austr. (Ravenel).

7. **Phyllosticta prunicola** (Opiz?) Sacc. Mich. I. p. 157, *Depazea pru-* 7

nicola Opiz? — Maculis subcircularibus epiphyllis, arescendo sordide brunneis v. ochraceis, margine subconcolore; peritheciis sparsis, punctiformibus, pertusis; sporulis ovoideis v. ellipsoideis, 5 ≃ 3, e hyalino olivaceis.

Hab. in pag. sup. foliorum Pruni domesticæ, P. Cerasi nec non Piri Mali, Aquileja, Plezzo, Belluno, in Italia bor. — Forma in Malo ad *Leptosphæriam Pomonam* Sacc., tamquam spermogonium, pertinere videtur.

8. **Phyllosticta Mahaleb** Thüm Contr. Mycol. Lusit. — Peritheciis 8
dense gregariis, epiphyllis, globuloso-punctiformibus, semiimmersis, nigris, parvulis, in macula orbiculari v. orbiculari-sinuosa, arescendo cinerescente, anguste et obscurius cincta; sporulis ovato-ellipsoideis, utrinque rotundatis, enucleatis, achrois v. pallidissime griseolis, 4–5 ≃ 2–2,5.

Hab. in foliis vivis Pruni Mahaleb, Coimbra in Lusitania, in horto botanico (Moller).

9. **Phyllosticta Mespili** Sacc. Mich. I. p. 159. — Maculis subcircula- 9
ribus, arescendo ochraceis, rufo-cinctis; peritheciis sparsis, punctiformibus, lenticularibus, pertusis, laxe cellulosis, lutescentibus; sporulis oblongis, utrinque rotundatis, 4 ≃ 3, olivaceis.

Hab. in foliis Mespili germanicæ, Selva et Cusignana in Italia boreali.

10. **Phyllosticta Cydoniæ** (Desm.) Sacc., *Cheilaria Cydoniæ* Desm. 10
14 Not. p. 26. — Maculis amphigenis, brunneis, rotundatis vel irregularibus 3–5 mill. diam.; peritheciis epiphyllis, minutissimis, numerosis, innato-prominulis, nigris, rima («epidermica?») dehiscentibus; cirris albidis; sporulis minutis, cylindricis, rectis vel curvulis, 4-guttulatis, 10 μ. longis.

Hab. in foliis languescentibus Cydoniæ, in Gallia.

11. **Phyllosticta Eriobotryæ** Thüm. Contr. Fl. mic. Lit. n. 215, tab. I. 11
fig. 7. — Peritheciis epiphyllis, mediis, globosis, prominulis, gregariis, atris in maculis aridis, plus minusve orbiculatis, fusco-griseis, nigro-annulatis, demum corrosis; sporulis ellipsoideis, enucleatis, dilute fusco-griseis, 4-6 ≃ 3.

Hab. in foliis vivis Eriobotryæ japonicæ, Gorizia in Ital. bor. — *Ph. Photiniæ* Thüm. proxima sed diversa.

12. **Phyllosticta chænomelina** Thüm. Contr. Fung. Litor. n. 216, 12
tab. I. fig. 4. — Peritheciis mediis, epiphyllis vel raro etiam amphigenis, sparsis, subprominulis, conicis, ostiolatis, atris in macula irregulari, albescente, subtus fusca, exarida; sporulis ovatis,

simplicibus, utrinque subrotundatis, pallidissime cinereis, diaphanis, 5 ≈ 2.

Hab. ad Chænomeles (Pyri) japonicæ folia viva, Gorizia in Italia boreali.

13. **Phyllosticta? Cratægi** (Cooke) Sacc., *Cheilaria Cratægi* Cooke Grev. XII. p. 25. — Hypophylla; peritheciis sparsis, minutissimis, applanatis, superne in lacinias 3-4 («epidermicas»?) apertis; sporulis ovoideis hyalinis, 3 ≈ 1,5. 13

Hab. in foliis Cratægi, in Carolina australi Americ. bor. (Ravenel).

14. **Phyllosticta sanguinea** (Desm.) Sacc., *Depazea sanguinea* Desm. 8 Not. p. 14. — Maculis suborbiculatis brunneis, linea obscuriore cinctis, ambitu sanguineis; peritheciis sparsis epiphyllis, subrotundis, nigro-nitidis; sporulis ovatis, biguttulatis, hyalinis, 8 μ. long. 14

Hab. in foliis emortuis Pruni Padi, in Gallia.

15. **Phyllosticta circumscissa** Cooke Grev. XI. 150. — Amphigena; maculis orbicularibus, rufo-fuscis, demum delapsis; peritheciis paucis, minutis, innatis; sporulis ellipticis 8 ≈ 2. 15

Hab. in foliis Pruni Armeniacæ et Cerasi, in Australia merid. — Vulgo dicitur «Shot-hole fungus» et valde est noxius.

16. **Phyllosticta cerasicola** Speg. F. Argent. Pug. III. n. 93. — Maculis subnullis; peritheciis epiphyllis, densiuscule sparsis, minutis, 80-90 μ. diam., atris, tenuissime membranaceis, contextu parenchymatico, olivaceo; sporulis cylindraceis, utrinque obtusissime rotundatis et 1-guttulatis, minutis, 4 ≈ 1, hyalinis. 16

Hab. ad folia putrescentia Pruni Cerasi, in hortis prope la Recoleta in Argentina.

17. **Phyllosticta cratægicola** Sacc., *Ph. Cratægi* Speg. Mich. I. 483. — Maculis subrotundis, griseis; peritheciis parenchymate innatis, minutissimis, 60-80 μ. diam., contextu laxe parenchymatico-atro; sporulis hyalinis, minutissimis, ellipticis v. ellipsoideis, biguttulatis, $2^1/_2$-3 ≈ 1-$1^1/_2$. 17

Hab. in foliis Cratægi Oxyacanthæ, Belluno in Italia bor., rarius.

18. **Phyllosticta photinica** Sacc. Mich. I. p. 156, 276. — Maculis subcircularibus irregularibusve ephiphyllis, arescendo candidis, atro-rufo-marginatis; peritheciis remote sparsis, e globoso lenticularibus, 60-70 μ. diam., latiuscule pertusis, contextu validiusculo; sporulis minutissimis ovoideo-oblongis, 2-$3^1/_2$ ≈ $^3/_4$-1, eguttulatis, e hyalino olivaceis. 18

Hab. in foliis Photiniæ serrulatæ, Selva in Ital. bor.

19. **Phyllosticta Photiniæ** Thüm. Fung. Litor. n. 218, t. I. f. 5. — Peritheciis minutis, epiphyllis, semiprominulis, sparsis, globosis, nigris in maculis orbiculatis, albo-griseis, exaridis, determinatis; sporulis minimis, cylindrico-ovatis, utrinque rotundatis, hyalinis, simplicibus, 5 ≃ 2-3. 19

Hab. ad folia viva Photiniæ serrulatæ, Gorizia in Ital. bor.

20. **Phyllosticta photinicola** Sacc. Mich. I. p. 157. — Maculis vagis majusculis, arescendo candicantibus, rufo-marginatis; peritheciis remotiusculis, punctiformibus lenticularibus, 140-150 μ. diam., latiuscule pertusis, contextu laxiuscule celluloso subochraceo; sporulis ovoideis, 5-6 ≃ 3-3½, dilute fuligineis. 20

Hab. in pag. sup. foliorum Photiniæ serrulatæ, Selva in Italia boreali.

21. **Phyllosticta punica** Sacc. et Speg. Mich. I. p. 156. — Maculis parvis epiphyllis, subcircularibus sinuosis, arescendo candicantibus, rufo-marginatis; peritheciis punctiformibus, sparsis, lenticularibus, 80-140 μ. diam., pertusis, contextu parenchymatico densiusculo fuligineo; sporulis ellipsoideis, 6-7 ≃ 3, dilute olivaceis. 21

Hab. in foliis Punicæ Granati, Conegliano in Ital. bor.

22. **Phyllosticta Pirorum** Cooke Grev. XII. pag. 26. — Epiphylla; maculis dealbatis, magnis, semi vel totam paginam occupantibus, linea purpurea determinatis; peritheciis sparsis, convexis, atris; sporulis linearibus, rectis vel subcurvulis, hyalinis, 10 ≃ 2. 22

Hab. in foliis Pirorum, in Carolina austr. (Ravenel).

23. **Phyllosticta pirina** Sacc. Mich. I. p. 134. — Maculis arescendo candicantibus, variis; peritheciis plerumque epiphyllis, punctiformibus, lenticularibus, pertusis, 100-130 μ. diam., contextu laxe celluloso ferrugineo; sporulis ovoideis v. ellipsoideis, 4-5 ≃ 2-2½, hyalinis. 23

Hab. in foliis Piri communis socia *Sphærella Bellona* Sacc. nec non in foliis Piri Mali, in Italia bor., Gallia et Lusitania. — Secundum Kickx Flandr. I, 432, *Depazea pirina* Riess est *Septoria Piri* West. seu *Sept. piricola* Desm.

24. **Phyllosticta piricola** Sacc. et Speg. Mich. I. p. 153. — Maculis obsoletis; peritheciis inordinate sparsis, lentiformibus, prominulis, hypophyllis, 150 μ. diam., atris; sporulis ovoideis v. ovoideo-oblongis, 2-2½ ≃ ¾-1, hyalinis. 24

Hab. in foliis dejectis Piri communis, Conegliano in Italia boreali.

25. **Phyllosticta Aucupariæ** Thüm. Beitr. Pilz. Sib. n. 611. — Peri- 25

theciis sparsis v. subgregariis, epiphyllis, submagnis, conico-hemisphæricis, basi epidermide subcinctis, semiimmersis, atris in macula plus minusve orbiculata, arescendo cinerea, late irregulariter fusco-cincta; sporulis ellipticis, utrinque rotundatis, simplicibus, griseis 5-8 ≃ 3.

Hab. ad folia viva Sorbi Aucupariæ, Minussinsk in Sibiria.

26. **Phyllosticta Sorbi** West. Bull. Ac. Belg. II. Ser. XII. n. 7. — 26
Maculis subcircularibus, sparsis v. confluentibus, cinerascentibus, atro-purpureo-marginatis; peritheciis punctiformibus, atris, in centro maculæ sitis, poro pertusis; sporulis ovoideis, hyalinis, 2-guttulatis, 10 ≃ 5.

Hab. in pagina superiore foliorum Sorbi Aucupariæ et domesticæ, in Belgio et Lusitania.

27. **Phyllosticta Persicæ** Sacc. Mich. I. p. 147. — Maculis subcircula- 27
ribus, arescendo dilute fuligineis, sanguineo-marginatis, quandoque concentrice subzonatis; peritheciis remotiusculis, punctiformibus, lenticulari-conoideis, prominulis, 80-100 μ. diam., pertusis, laxiuscule cellulosis, lutescenti-fuligineis; sporulis oblongis, interdum curvulis, 6-7 ≃ $3^1/_2$-4, 2-guttulatis, hyalinis.

Hab. in pag. super. foliorum Persicæ vulgaris, Selva in Ital. bor., et Coimbra in Lusitania.

28. **Phyllosticta fuscozonata** Thüm. Contr. Fl. mic. Lit. n. 331. — 28
Peritheciis epiphyllis, sparsis, mediis, fuscis, lenticularibus in macula magna, irregulari v. subsinuosa, sordide fusca, griseo-fusco-multizonata, indistincte ferrugineo-cincta; sporulis cylindrico-oblongis, utrinque rotundatis, rectis, plerumque biguttulatis, hyalinis, 7-9 ≃ 3,5-4.

Hab. ad folia viva Rubi Idæi, Plezzo in agro Goritiensi.

29. **Phyllosticta rubicola** Rabh. F. E. n. 1757, *Depazea areolata* 29
Sacc. Myc. Ven. p. 192, an Fuck. — Maculis subcircularibus parvis, arescendo dealbatis, sanguineo-marginatis; peritheciis punctiformibus, paucis; sporulis e globoso ovoideis, 3 ≃ 2, e hyalino olivaceis.

Hab. in pag. sup. foliorum Rubi cæsii, in silva Montello in Ital. bor. et Germania.

30. **Phyllosticta Ruborum** Sacc. Mich. II. p. 342. — Maculis epiphyllis, 30
minutis candicantibus, sæpius prope nervos; peritheciis paucis punctiformibus, lenticularibus, $^1/_{10}$ mill. diam.; sporulis tereti-oblongis, biguttulatis, 5 ≃ $1^1/_2$, hyalinis,

Hab. in foliis languidis Rubi fruticosi vel affinis, Rouen in Gallia (Letendre). — A *Phyll. rubicola* Rabh. omnino diversa.

31. **Phyllosticta Rosæ** Desm. Exs. n. 687, Ser. II. Kickx Fl. I. 416. 31 — Peritheciis epiphyllis, perexiguis, semiimmersis, nigris, globulosis, sparsis; maculis subcircularibus viridescentibus, dein fuscis v. subcinereis, purpureo-cinctis; sporulis cylindraceo-obtusis, 3-4-guttulatis; cirris albidis.

Hab. in foliis Rosarum cultarum in Gallia et Belgio.

32. **Phyllosticta nuptialis** Thüm. Contr. Myc. Lusit. — Peritheciis 32 sparsis, epi- rarissime etiam hypophyllis, conico-semiimmersis, primo epidermide tectis, dein liberis et cito elabentibus, nigris, interdum confluentibus, in macula plus minusve orbiculata, arescendo ochraceo-albida, violaceo late cincta, in pagina foliorum inferiore fusca; sporulis minutissimis, subglobosis v. ovoideis, hyalinis, enucleatis, 2-2,5 ≃ 1,5.

Hab. in foliis vivis Myrti communis, Matta do Rangel prope Coimbra in Lusitania (Moller).

33. **Phyllosticta Eucalypti** Thüm. Contr. Fl. Lusit. n. 374. — Peri- 33 theciis epiphyllis, gregariis, minutis, punctiformibus, leniter emersis, nitido-atris, ostiolo centrali, in macula maxima, irregulari primo opace sordido-fusca, demum exarescente-albicante, anguste purpureo-cincta, subtus sordide brunnea; sporulis numerosis, continuis, breve ellipsoideis, utrinque rotundatulis, achrois, 4 ≃ 1,5, rectis, enucleatis.

Hab. in foliis vivis languidisve Eucalypti Globuli, in silvis Matta de Valle de Canas prope Coimbra in Lusitania (Moller).

34. **Phyllosticta Myricæ** Cooke in Rav. Fung. Amer. n. 154 et in 34 Grevillea. — Maculis suborbicularibus, rubro-brunneis; peritheciis minimis, tectis, in maculis nidulantibus; sporulis minutis, arcte ovalibus, hyalinis 7 μ. longis.

Hab. in foliis Myricæ ceriferæ, Aiken in Amer. bor.

35. **Phyllosticta Calycanthi** Sacc. et Speg. Mich. I. p. 139. — Ma- 35 culis versiformibus, arescendo candicantibus; peritheciis amphigenis, lenticularibus, 150 μ. diam., latiuscule pertusis, contextu laxe celluloso, subochraceo; sporulis ellipsoideis, 7-9 ≃ 5-6, hyalinis.

Hab. in foliis Calycanthi præcocis, Conegliano in Italia boreali.

36. **Phyllosticta Siliquastri** Sacc. et Speg. Mich. I. p. 148. — Maculis 36 versiformibus, arescendo rufescentibus; peritheciis amphigenis, sparsis, prominulis, umbilicatis, anguste pertusis, 120-150 μ. diam., ex

olivaceo luteolis; sporulis ovoideis oblongisve, obtusiusculis, 6–7 ≃ 3–4, 2-guttulatis, hyalinis.

Hab. in foliis Cercidis Siliquastri, Susegana in Italia bor., et Coimbra in Lusitania.

37. **Phyllosticta Robiniæ** Sacc. Mich. I. p. 146. — Maculis vagis irregularibus rufescentibus, margine subconcolori; peritheciis punctiformibus raris; sporulis ovoideis, 4 ≃ 3, granulosis, hyalinis. 37

Hab. in foliis Robiniæ Pseudacaciæ, Selva, Conegliano in Ital. bor. — Huc *Ascochyta Robiniæ* Sacc. Myc. Ven. p. 195 non Lib. quæ ad *Septoriam Robiniæ* West. spectat.

38. **Phyllosticta laburnicola** Sacc. Mich. I. p. 152. — Maculis nullis; peritheciis hinc inde congregatis, lenticularibus, 60–70 μ. diam. pertusis; sporulis oblongo-cylindraceis, 3–5 ≃ 1, hyalinis. 38

Hab. in pag. infer. foliorum Cytisi Laburni, Selva in Italia boreali.

39. **Phyllosticta cytiseila** Sacc. Mich. I. p. 137. — Maculis epiphyllis, angulosis, arescendo dealbatis, fusco-cinctis; peritheciis punctiformibus, sparsis, pertusis; sporulis ex oblongo ovoideis, 5 ≃ 3, eguttulatis, hyalinis. 39

Hab. in foliis Cytisi nigricantis in silva Montello Italiæ bor. — Habitu, forma et colore maculæ a *Ph. Cytisi* Desm. differt. 40

40. **Phyllosticta Cytisi** Desm. Not. XIV. (1847) p. 34, Mich. I. p. 146. — Maculis arescendo fuscidulis, subcircularibus, vix marginatis; peritheciis sparsis, punctiformibus; sporulis ovoideo-oblongis, 6 ≃ 3–4, sæpe curvulis, utrinque rotundatis 1-guttulatisque, hyalinis.

Hab. in foliis Cytisi Laburni, in Gallia, Italia, Britannia, Austria et Belgio.

41. **Phyllosticta gallarum** Thüm. Beitr. Pilz fl. Sibir. n. 612. — Peritheciis epi- interdum etiam hypophyllis, dense gregariis, submagnis, conico-emersis, basi epidermide lacerata cinctis, atris in macula plus minusve orbiculata, arescendo albicante, fusco-cincta, semper gallarum Cynipidearum os ambiens v. in folii pagina inferiore in gallæ gibbere positis; sporulis ellipsoideis, interdum inæquilateralibus, simplicibus, pallidissime fuligineis, rarissimis, 5–6 ≃ 3–5. 41

Hab. ad folia viva Caraganæ arborescentis, prope Minussinsk in Sibiria.

42. **Phyllosticta Borszczowii** Thüm. Beitr. Pilz. Sibir. n. 805. — Peritheciis dense gregariis, hypophyllis, raro amphigenis, punctiformibus, hemisphærico-prominulis, liberis, nitido-atris in macula ob- 42

soleta v. in partibus subexaridis decoloratisve foliorum; sporulis numerosis, minutissimis, simplicibus, enucleatis, ellipticis, utrinque rotundatis, hyalinis, 3 ≃ 1,5.

Hab. ad folia viva Caraganæ arborescentis, in lapidosis prope Maidaschi in Sibiria.

43. **Phyllosticta Kennedyæ** Winter Cont. Myc. Lus. n. 800. — Maculis irregularibus, sæpe confluentibus, plerumque marginalibus, fuscescenti-pallidis, demum albescentibus exaridisque, fusco-cinctis; perithecis hypophyllis, sparsis, lenticularibus, poro pertusis, fuscis, 96–105 μ. lat.; sporulis ellipticis, continuis, hyalinis 7–9 ≃ 3,5. 43

Hab. ad folia viva Kennedyæ ovatæ, Coimbra in Lusitania, in horto botanico.

44. **Phyllosticta australis** Speg. Fung. Arg. Pug. II. n. 119. — Maculis nullis v. griseo-arescentibus, indeterminatis; perithecis atro-fuligineis, lenticularibus, 100–120 μ. diam., contextu fuligineo, parenchymatico; sporulis ellipticis, utrinque acuminato-rotundatis, biguttulatis, 8–10 ≃ 3–4, hyalinis. 44

Hab. in foliis dejectis Erythrinæ Cristæ-galli, in paludosis cerca de la Recoleta in Argentina.

45. **Phyllosticta Glycines** Thüm. Contr. Fl. myc. Lusit. — Perithecis epiphyllis, pro ratione magnis, sparsis, lenticulari-applanatis, aterrimis in macula magna, irregulari, arescendo ferrugineo-ochracea; sporulis ellipticis, utrinque truncato-rotundatis, plerumque binucleatis, rectis, achrois, 6 ≃ 2,5. 45

Hab. in foliis vivis Glycines violaceæ, Choupal prope Coimbra in Lusitania (Moller).

46. **Phyllosticta Wistariæ** Sacc. Fungi Gallici Ser. VI. n. 2258. — Maculis irregularibus amphigenis, ochraceis; perithecis gregariis lentiformibus, pertusis, 1/6 mill. diam., tenui-membranaceis; sporulis oblongis, deorsum acutioribus, 2-guttatis, 8–10 ≃ 3–3,5; basidiis acicularibus 15 ≃ 1,5. 46

Hab. in foliis Wistariæ sinensis, Saintes in Gallia (Brunaud). — Ob basidia *Phomæ* accedit, cetera vero *Phyllostictæ*.

47. **Phyllosticta Bauhiniæ** Cooke Grev. XII. pag. 26. — Epiphylla; maculis irregularibus, fuscis; perithecis minutis, sparsis, punctiformibus, atris; sporulis ellipticis, hyalinis, 7,5 ≃ 2. 47

Hab. in foliis Bauhiniæ, Caraccas in Venezuela.

48. **Phyllosticta Ceratoniæ** Berk. in Welw. F. Portug. pag. 8. — Maculis nigro-limitatis, irregularibus; sporulis minutis anguste ellipticis, hyalinis. 48

Hab. in foliis Ceratoniæ Siliquæ, Arrabida et Coimbra in Lusitania.

49. **Phyllosticta ocellata** Pass. et Beltr. F. Sic. n. 23. — Maculis parvis, ocellatis, subrotundis, exaridis, albis, margine elevato et areola lutescentibus circumdatis; peritheciis punctiformibus, epidermide velatis, dein ostiolo minutissimo atro erumpentibus; sporulis minutissimis, bacteriformibus, medio non constrictis $2^1/_2$ μ. longis. 49

Hab. ad folia languida Citri Limonum, Monostalla in Sicilia. — *Phyll. Platanoidis* affinis.

50. **Phyllosticta marginalis** Penz. Mich. II. p. 425. — Maculis albis, aridis, irregularibus, brunneo-cinctis; peritheciis majusculis 300–360 μ. diam., in macularum margine insidentibus, amphigenis, hypodermeis, paullum depressis, aterrimis; sporulis cylindraceis, utrinque rotundatis eguttulatis, hyalinis, 2,5–3,5 ≃ 0,8–1,5. 50

Hab. in foliis vivis Citri medicæ L. (var.), in frigidario r. horti botanici Patavini.

51. **Phyllosticta micrococcoides** Penz. Mich. II. p. 426. — Maculis atro-brunneis, nebulosis, irregularibus; peritheciis hypophyllis, dense gregariis, 90–110 μ. diam., prominulis, sphæroideis, contextu parenchymatico; sporulis hyalinis, subglobosis, minimis, 1–1,5 ≃ 0,7–1, eguttulatis. 51

Hab. in foliis junioribus, quæ enecat, Citrorum socia *Septoria Tibia* Penz., Strà prope Padova, in Ital. bor.

52. **Phyllosticta Hesperidearum** (Catt.) Penz. Mich. II. pag. 425. — *Phoma Hesperidearum* Catt. Mic. Agrumi p. 10. — Maculis orbicularibus vel sinuosis irregularibus, brunneis, dein fulvis, cinereis vel albicantibus, exaridis, totam folii substantiam penetrantibus, in ambitu brunneo-purpureis; peritheciis perexiguis, innato-prominulis, nigris, ore orbiculari, amplo apertis; sporulis ellipticis, utrinque rotundatis, hyalinis, 3–4 ≃ 2–2,5. 52

Hab. in foliis vivis Hesperidearum, Pavia (Cattaneo), S. Terenzo prope Spezia (Gibelli), Strà prope Padova (Penzig).

53. **Phyllosticta disciformis** Penz. Mich. II. p. 424. *Phoma Hesperidearum* Sacc. in Michelia VII, p. 274 (non Cattaneo). — Maculis cinereo-albescentibus, orbicularibus vel irregularibus, linea fusco-atra cinctis; peritheciis sparsis vel laxe gregariis, minutissimis, punctiformibus, hypodermicis, 120 μ. diam., brunneis, tenuibus, contextu parenchymatico; sporulis ellipticis, utrinque rotundatis, hyalinis, eguttulatis, 4–6 ≃ 2–3. 53

Hab. in foliis vivis Citri Limonum, Padova (Saccardo), Bo-

logna (Gibelli), Atalantiæ buxifoliæ et Limoniæ australis, Cattajo prope Padova (Penzig).

54. **Phyllosticta Beltranii** Penz. in Mich. II. pag. 423 et F. ital. n. 1153. — Maculis obsoletis; peritheciis hypophyllis dense gregariis, minimis, 80–90 μ. diam., depressis, hypodermicis, demum erumpentibus, atris; sporulis minutissimis, 2,5–3 ≃ 0,7–1, cylindricis, apice rotundatis vel subtruncatis, hyalinis, eguttulatis. 54

Hab. in nervo mediano foliorum delapsorum Citri Limonum, Carini (Sicilia), ubi legit V. Beltrani.

55. **Phyllosticta aurantiicola** (B. et C.) Sacc. *Sphæropsis aurantiicola* B. et C. On Cuban Fungi, p. 352, n. 564. — Peritheciis gregariis in maculis pallidis sitis, erumpentibus; sporulis clavatis hyalinis, 7 μ. longis. 55

Hab. in foliis emortuis Citri Aurantii, in Cuba.

56. **Phyllosticta Pseudoplatani** Sacc. Mich. I. p. 136. — Maculis sinuosis arescendo dealbatis, brunneo-cinctis; peritheciis lenticularibus, 60 μ. diam., laxiuscule ferrugineo-parenchymaticis, pertusis; sporulis oblongis v. breve cylindraceis, 5–6 ≃ 3, eguttulatis, hyalinis. 56

Hab. in pag. sup. foliorum Aceris Pseudoplatani, Selva in Ital. bor., et Coimbra in Lusitania.

57. **Phyllosticta Platanoidis** Sacc. Mich. I. p. 360. — Maculis obsoletis vel subnullis; peritheciis hypophyllis, dense gregariis, hinc inde maculiformiter aggregatis, epidermide velatis, minutissimis, globosis, 70–80 μ. diam., contextu parenchymatico, ostiolo manifesto; sporulis minutissimis, bacteriformibus, medio constrictis, utrinque rotundatis, 2–4 ≃ 0,5–1, hyalinis, eguttulatis. 57

Hab. in foliis delapsis Aceris Platanoidis, A. Negundinis, in Italia bor. et Gallia.

58. **Phyllosticta Negundinis** Sacc. et Speg. Mich. I. p. 149. — Maculis variis arescendo fulvo-rufescentibus; peritheciis sparsis punctiformibus, lenticularibus, 100–120 μ. diam., latiuscule pertusis, contextu laxiuscule parenchymatico, dilute fuligineo; sporulis ellipsoideis, 6–7 ≃ 3–4, obsolete 2-guttulatis, hyalinis. 58

Hab. in foliis Negundis fraxinifoliæ, Conegliano in Italia boreali.

59. **Phyllosticta fallax** Sacc. et Roum. Mich. II. p. 620. — Peritheciis in maculis minutis dealbatis sparse innatis, epiphyllis, lenticularibus, pertusis 100 μ. diam.; sporulis oblongo-ellipsoideis, 5–6 ≃ 3–3¼, chlorinis. 59

Hab. in foliis Aceris Pseudoplatani, in Gallia et Ger-

mania. — A *Phyllosticta Pseudoplatani* Sacc. sporulis chlorinis mox dignoscitur.

60. **Phyllosticta acericola** C. et E. in Grev. VIII. p. 11. — Epiphylla; maculis pallidis, purpureo-cinctis; peritheciis punctiformibus, dispersis; sporulis ovatis, hyalinis 8 ≃ 5. 60

Hab. in foliis Acerum, New Jersey in Am. bor. (Ellis).

61. **Phyllosticta Aceris** Sacc. Mich. I. p. 147, *Ascochyta Aceris* Sacc. Mycol. Ven. 194, non Libert, quæ sec. auctores est *Septoria Aceris* (Lib.) B. et Br. — Maculis subcircularibus arescendo ochraceis, majusculis; peritheciis punctiformibus, lenticularibus, pertusis, atris; sporulis ovoideis v. oblongo-ovoideis, 5 ≃ $2^1/_2$-3, 2-guttulatis, hyalinis. 61

Hab. in foliis Aceris campestris, Vittorio in Ital. bor. — *Ascochyta Aceris* Fuck. Symb. 387 est *Cheilaria Aceris* Lib. Exs. n. 255, seu *Didymosporium Aceris* Desm.

62. **Phyllosticta Rhamni** West. Not. V. 26. *Phyll. Frangulæ* Kx. Fland. I. 418. — Maculis vagis, subochraceis, fusco-cinctis; peritheciis sparsis, v. in centro maculæ gregariis, punctiformibus, pertusis; sporulis oblongis ovoideisve, 5-6 ≃ 3-$3^1/_2$, e hyalino olivaceis. 62

Hab. in foliis Rhamni Frangulæ et Alaterni, in Belgio, Italia, Lusitania. — Sporulæ in Kx. l. c. hyalinæ indicantur, et 2-guttulatæ, sed ab ætate pendere potest.

63. **Phyllosticta rhamnigena** Sacc. Mich. I. p. 156. — Maculis subcircularibus arescendo sordide albis, fusco-marginatis; peritheciis epiphyllis dense gregariis punctiformibus, prominulis, atris; sporulis ovoideo-oblongis, $4^1/_2$-5 ≃ 3, 2-guttulatis, fuscidulo-olivaceis. 63

Hab. in foliis Rhamni cathartici et Alaterni, in Italia, Gallia, Lusitania. — A *Phyll. Rhamni* West. præcipue maculæ natura differt.

64. **Phyllosticta rhamnicola** Desm. 14 Not. pag. 32. — Maculis amphigenis, albidis vel cinereis, orbiculatis, sparsis confluentibusque, dein evanidis; peritheciis hypophyllis, minutis, numerosis, nigris, nitidis, prominulis, subglobosis, dein collabascendo concavis; sporulis exilissimis, subcylindricis, utrinque obtusis, 6 μ. longis. 64

Hab. in foliis emortuis Rhamni alpini, in Gallia et Belgio.

65. **Phyllosticta Cathartici** Sacc. Mich. I. p. 146. — Maculis subcircularibus, arescendo ochraceis, fusco-rufo-marginatis; peritheciis punctiformibus, lenticularibus pertusis; sporulis ovato-fusoideis, 10 ≃ 4, 2-guttulatis, hyalinis. 65

Hab. in pag. sup. foliorum Rhamni cathartici, Selva in Ital.

bor. — Ab hac *Phyllosticta Rhamni* West. differt sporulis multo minoribus, nempe 5 ≃ 3; *Phyllosticta rhamnicola* (Lasch) Desm. sporulis cylindraceis 7 long. recedit. Huc e contra spectat *Depazea rhamnicola* Sacc. Mycol. Ven. 192 et probabiliter Fuck. Symb. 380 (in Rhamno cathart.) non Laschii, quæ diversam *Phyllostictam rhamnicolam* Desm. sistit.

66. **Phyllosticta Frangulæ** West. Exs. n. 958 Kickx Fl. crypt. Fl. I. 418. — Peritheciis epiphyllis, perexiguis, fusco-nigris, 10-15 in macula subrotunda, brunnea dein cinerea, vinoso-marginata sitis; sporulis ovoideis, obtusis, 2-guttulatis. 66

Hab. in foliis Rhamni Frangulæ, in Belgio.

67. **Phyllosticta Zizyphi** Thüm. Contr. Myc. Lusitan. — Peritheciis epiphyllis, numerosis, punctiformibus, gregariis, minutissimis, atris in macula sinuosa, arescendo griseo-ochracea, late fusco-marginata; sporulis ellipsoideis, utrinque rotundato-obtusatis, rectis vel paullulo arcuatis, grosse biguttulatis, achrois, 6 ≃ 2,5-3. 67

Hab. ad folia viva Zizyphi vulgaris, Coimbra in Lusitania, in horto botanico (Moller).

68. **Phyllosticta Evonymi** Sacc. Mich. I. p. 155. — Maculis minutis angulosis, arescendo candidis, brunneo-cinctis; peritheciis sparsis, punctiformibus, 100 μ. diam., lenticularibus, pertusis; sporulis oblongis, sæpius inæquilateralibus, utrinque obtusis, 4-5 ≃ $3^1/_2$-4, obsolete 2-guttulatis, chlorinis. 68

Hab. in foliis Evonymi europæi, Vittorio in Italia boreali, et in Gallia.

69. **Phyllosticta pustulosa** S. et R. in Revue mycol. — Maculis plerumque epiphyllis elevatis variis, initio rufescentibus, dein centro dealbatis; peritheciis sparsis, punctiformibus, $^1/_{10}$ mill. diam., sporulis obovatis, 4 ≃ 2, hyalinis. 69

Hab. in foliis Evonymi japonici, in Algeria.

70. **Phyllosticta Bolleana** Sacc. *Ph. Evonymi* Thüm. Contr. Mic. Lit. n. 220, f. 20 (non Sacc.). — Peritheciis sparsis, mediis, epiphyllis, semiimmersis, globosis, nigris in macula exarida, irregulari, albo-grisea, anguste fusco-marginata; sporulis parvis, ellipsoideis, utrinque rotundatis, pallidissime griseis, 4-5 ≃ 2-2,5. 70

Hab. ad folia viva Evonymi japonici, Gorizia.

71. **Phyllosticta evonymella** Sacc. Mich. I. 138. *Sphæria Evonymi* Kunze in Fr. S. M. II. p. 439. — Maculis minutis, angulosis, ex olivaceo expallentibus; peritheciis dense gregariis, punctiformibus, globulosis, latiuscule pertusis, prominulis, solidiusculis; sporulis 71

tenuissimis, cylindraceis, rectiusculis, utrinque rotundatis, 4 ≃ 1/2–3/4, hyalinis.

Hab. in foliis Evonymi europæi, Vittorio in Ital. bor., et in Germania et Gallia, socia *Ph. Evonymi* Sacc., a qua longe differt.

72. **Phyllosticta nemoralis** Sacc. Mich. II. p. 88. — Maculis indeterminatis, expallentibus; peritheciis dense gregariis, amphigenis, punctiformibus, 100–140 μ. diam.; sporulis ovoideis, 7–8 ≃ 2–2 1/4, 2-guttulatis, hyalinis. 72

Hab. in foliis Evonymi europæi, Saintes in Gallia (Brunaud). — A *Ph. Evonymi* Sacc. et *Ph. evonymella* Sacc. probe diversa.

73. **Phyllosticta aliena** (Fr.) Sacc. Mich. II. p. 342, *Sphæria* et *Perisporium alienum* Fr. S. M. III, 252, II. 502. — Macula elongata expallente; peritheciis emerso-innatis, confertis, minimis, globosis, nigris, 80–90 μ. diam., poro pertusis; sporulis oblongo-ovatis, 7–8 ≃ 3,5, hyalinis. 73

Hab. in ramulis subvivis Evonymi europæi, in Gallia (Mougeot).

74. **Phyllosticta tineola** Sacc. Mich. I. p. 531. — Maculis amphigenis, vagis, ochraceis; peritheciis sparsis, globoso-lenticularibus, 70–80 μ. diam., pertusis; sporulis oblongo-cylindraceis, utrinque rotundatis, curvulis, 15 ≃ 3, 2-guttulatis, hyalinis. 74

Hab. in foliis Viburni Tini, Rouen in Gallia (Letendre). — A *Ph. tinea* Sacc. diversa.

75. **Phyllosticta tinea** Sacc. Mich. I. p. 135. — Maculis subcircularibus v. irregularibus, arescendo dealbatis; peritheciis punctiformibus applanatis, 1/6 mill. diam., pertusis; sporulis minutissimis ex ovato oblongis, 4–5 ≃ 1, hyalinis. 75

Hab. in pag. sup. foliorum Viburni Tini, Selva in Ital. bor.

76. **Phyllosticta Roumeguérii** Sacc. Mich. II. p. 88. — Maculis vagis, plerumque epiphyllis, arescendo griseis, margine concolori; peritheciis remotis lenticularibus, pertusis, 60–80 μ. diam., contextu tenui-parenchymatico, dilute fuligineo; sporulis ovoideo-clavulatis, 7–8 ≃ 3 1/2–4, sæpius inæquilateralibus, eguttulatis, hyalinis. 76

Hab. in foliis Viburni Tini, prope *Amts* in Gallia (Roumeguère). — A *Ph. tinea* et *Ph. tineola* meis diversa.

77. **Phyllosticta Opuli** Sacc. Mich. I. p. 146. — Maculis angulato-sinuosis, arescendo dilute ochraceis, fusco-marginatis; peritheciis punctiformibus, remote sparsis, lenticularibus, 60 μ. diam., pertusis; sporulis oblongis, utrinque rotundatis, 1-guttulatisque, 7–7 1/2 ≃ 2 1/2, hyalinis. 77

Hab. in foliis Viburni Opuli, in silva Montello in Ital. bor.

78. **Phyllosticta Rhois** West. Bull. Ac. Belg. Ser. II, t. XII. n. 7. — Maculis epiphyllis, minutis, irregularibus, angulosis, internerviis, pallide fuscis, obscurius marginatis; peritheciis raris, in centro maculæ sitis, nigris, tandem subliberis, poro pertusis; sporulis ovoideis, hyalinis, 2-guttulatis, 60 ≃ 3-5. 78

Hab. in foliis Rhois Cotini, Vlierbeeck in Belgio (Leburton). 79

79. **Phyllosticta rhoina** Kalch. et Cooke Grev. IX. 20. — Epiphylla; maculis elongatis, fuscis; peritheciis punctiformibus, atro-fuscis, dense congestis; sporulis arcte ellipticis, hyalinis, 5 ≃ 2.

Hab. in foliis Rhois levigatæ, in Africa australi.

80. **Phyllosticta Toxicodendri** Thüm. Fung. American. trig. Sp. n. 15. — Maculis parvis, rubro-fuscis irregularibus vel circularibus, atro-rubro-marginatis; peritheciis epiphyllis, sparsis v. solitariis, mediis, hemisphærico-orbiculatis, nigris; sporulis minutissimis, 1,5 ≃ 1, ellipsoideis, hyalinis, eguttulatis. 80

Hab. in foliis Rhois Toxicodendri, Aiken in Car. America boreali (Ravenel).

81. **Phyllosticta toxica** Ell. et Mart. Amer. Nat. 1882, p. 1002. — Maculis subcircularibus, minutis, cinerescentibus, brunneo-marginatis; peritheciis nigris, epiphyllis, innatis, 70 μ. diam.; sporulis subhyalinis, subglobosis, granulosis, 6-7,5 μ. diam. 81

Hab. in foliis languidis Rhois Toxicodendri, Decorah, Jowa (E. W. Holway).

82. **Phyllosticta ribicola** (Fr.) Sacc. *Sphæria* (Depazea) *ribicola*, Fr. S. M. II, p. 530, Curr. Simpl. Sphær. n. 395, f. 153. — Maculis latis lacteis; peritheciis pluribus minimis nigris, pilis longissimis deciduis instructis (?); sporulis oblongis, curvatis, utrinque obtusiusculis 15-17 μ. long., continuis, hyalinis. 82

Hab. in foliis Ribis rubri, in Suecia etc. — Icon Curreyi verisimiliter *Glæosporium Ribis* (Lib.) spectat.

83. **Phyllosticta Grossulariæ** Sacc. Mich. I. p. 136. — Maculis subcircularibus sinuosisve, arescendo griseis albicantibusve, fusco-marginatis; peritheciis punctiformibus sparsis; sporulis ovoideis v. ellipsoideis, 5-6 ≃ 3, hyalinis. 83

Hab. in pag. super. foliorum Ribis Grossulariæ, Selva in Ital. bor. et in Amer. bor. — Huc *Depazea ribicola* Sacc. Mycol. Ven. p. 192 et forte Fuckelii, non Friesii qui in S. M. II. 530 matricem et characteres alienos affert.

84. **Phyllosticta Lauri** West. Exs. n. 650. Kx Flandr. I. 417. — Ma- 84

culis sinuosis, fuscis, dein arescendo dealbatis, fusco-cinctis; peritheciis punctiformibus, lenticularibus; sporulis oblongo-ovoideis, 10 ≈ 3, utrinque 1-guttulatis, hyalinis.

Hab. in pag. sup. foliorum Lauri nobilis, in Italia boreali, Belgio et Lusitania.

85. **Phyllosticta laurella** Sacc. Mich. I. p. 157. — Maculis latis sinuosis arescendo expallentibus, fusco-cinctis; peritheciis sparsis, punctiformibus, pertusis; sporulis subsphæroideis, minutis, 4 ≈ 3, fuscidulis. 85

Hab. in foliis Lauri nobilis, Selva in Ital. bor.

86. **Phyllosticta nobilis** Thüm. Contr. F. Litor. n. 328. — Peritheciis epiphyllis, pro ratione magnis, solitariis, hemisphærico-semiimmersis, opaco-nigris in macula irregulari, sordide ochracea, arescenti, linea obscuriore cincta; sporulis numerosissimis, minutissimis, ellipticis, utrinque rotundatis, enucleatis, hyalinis, 2.5-3 ≈ 2. 86

Hab. in foliis vivis Lauri nobilis, Gorizia. — A *Phyllosticta laurella* Sacc. et *Ph. Lauri* Westd. valde diversa.

87. **Phyllosticta micropuncta** Cooke F. Texas 142. — Epiphylla; peritheciis minutis, atris, congestis; maculis subcircularibus; sporulis minutis, ovatis, hyalinis, 3 μ. longis. 87

Hab. in foliis Perseæ caroliniensis, Houston Texas, in America boreali.

88. **Phyllosticta Sassafras** Cooke Grev. XII. pag. 26. — Epiphylla; maculis orbicularibus, fuscis; peritheciis numerosis, quandoque circinatis, sparsisve, atris; sporulis elliptico-lanceolatis 7 ≈ 1,5 μ. hyalinis. 88

Hab. in foliis Sassafras officinalis, in Carolina australi (Ravenel).

89. **Phyllosticta aromatophila** Sacc. Mich. II. p. 276. — Maculis vagis, minutis, arescendo griseis; peritheciis sparsis sublenticularibus, 80-90 μ. diam., poro pertusis; sporulis ellipsoideis 4 ≈ 3, hyalinis. 89

Hab. in foliis Camphoræ officinarum, in horto Patavino in Ital. bor., vere 1880. — A *Phyll. Lauri* sporulis dimidio brevioribus differt.

90. **Phyllosticta vulgaris** Desm. Ann. Sc. nat. 1849. XI. p. 350. *Ph. Loniceræ* West. (?) Bull. Ac. Brux. 1851, p. 399. — Maculis subcircularibus, olivaceo-rufulis, dein expallentibus, fusco-marginatis; peritheciis epiphyllis, prominulis, perexiguis, globoso-depressis, initio succineis, dein fuscis; sporulis minutis, cylindraceo-ovatis, obtusis, 2-guttulatis, hyalinis, 10-14 ≈ 2.5-3,5; cirris albidis. 90

Hab. in foliis languidis Loniceræ Caprifolii, ciliatæ, Periclymeni et Xylostei, in Gallia, Britannia, Italia, Lusitania, Belgio, Germania, Austria, America boreali. — Var. **Cerasi**: maculis majoribus, sæpius internerviis marginalibusque. — Var. **Viburni**: maculis magnis, immarginatis, denique plerumque laceratis. — Var. **Philadelphi**: maculis minutis, confluentibus denique folium totum occupantibus. — In foliis arborum citatarum in Gallia.

91. **Phyllosticta Caprifolii** (Opiz) Sacc., *Depazea Caprifolii* Opiz (?), Sacc. Mycol. Ven. p. 193. — Maculis amphigenis, subrotundis, arescendo griseis, fusco-cinctis; peritheciis remotis, punctiformibus; sporulis oblongis, 6–7 ≃ 2½, 2-guttulatis, hyalinis. 91

Hab. in pag. super. fol. Loniceræ Caprifolii, Colfosco et in silva Montello in Ital. bor., socia *Sphærella Clymenia* Sacc., cujus est spermogonium; nec non in Gallia et in Lonicera Pallasii, in Sibiria.

92. **Phyllosticta nitidula** Dur. et Mont. Fl. Alg. et Mont. Syll. n. 1027. — Epiphylla; maculis amplis, amphigenis, fuscescenti-carneis, zona fusca cinctis; peritheciis minutis, prominulis, sparsis, nitidulis; sporulis atomisticis. 92

Hab. in foliis Loniceræ implexæ, Alger (Durieu).

93. **Phyllosticta Symphoricarpi** West. Not. VII. 7. Kx. Flandr. I. 419, Mich. I. pag. 148. — Maculis epiphyllis variis atrofuligineis, dein centro cinerascentibus; peritheciis punctiformibus, lenticularibus; sporulis oblongis, 6–7 ≃ 2½, utrinque rotundatis, hyalinis. 93

Hab. in foliis Symphoricarpi racemosæ, in Belgio, Italia et ditione Goritiensi.

94. **Phyllosticta sambucicola** Kalchbr. Hedw. 1864. p. 73. I. Eur. n. 668. — Maculis sat amplis subangulatis, griseis, purpureo-fusco-marginatis; peritheciis crebris, subprominulis, minutis, fusco-atris; sporulis minutissimis, hyalinis, globosis. 94

Hab. in foliis Sambuci, in Hungaria.

95. **Phyllosticta Sambuci** Desm. 14 Not. pag. 34. — Epiphylla; maculis candidis, solitariis vel confluentibus in series dispositis; peritheciis innato-prominulis, minutissimis, paucis, fusco-nigris, poro apertis, nucleo albido; sporulis perexiguis, ovoideo-oblongis, biguttulatis, 5–7 *μ*. long. 95

Hab. in foliis languescentibus Sambuci Ebuli, nigræ et racemosæ, in Gallia, Belgio et Britannia.

96. **Phyllosticta viticola** Sacc. et Sp. Mich. I. p. 153. — Maculis va- 96

gis sinuosis, arescendo candidis, anguste fusco-cinctis, epiphyllis; peritheciis punctiformibus, lenticularibus, pertusis; sporulis ellipsoideis, $5 \simeq 2^1/_2$ eguttulatis, e hyalino olivaceis.

Hab. in foliis Vitis viniferæ, in agro Tarvisino et Goritiensi in Italia boreali.

97. **Phyllosticta Labruscæ** Thüm. Weinst. Pilz, pag. 189. — Peritheciis mediis, dense gregariis, numerosis, sine ordine dispositis, epiphyllis, hemisphæricis, prominentibus, atris in macula suborbiculari, distincte limitata, linea brunnea cincta, exarida, rufo-fusca, epiphylla, in pagina inferiore maculam pallidam fuscescentem, indistinctam efficiente; sporulis numerosis, oblongis, regularibus, utrinque rotundatis, diaphanis, episporio tenui, achrois, intus granulosis, $9\text{–}11 \simeq 6\text{–}7$ μ. 97

Hab. in foliis vivis Vitis Labruscæ, Newfield, New Jersey in America septentrionali (J. B. Ellis).

98. **Phyllosticta Vitis** (Fuck.?) Sacc. Mich. I. p. 135. — Maculis vagis, sinuosis arescendo dealbatis, fusco-marginatis; peritheciis remotis, punctiformibus, lenticularibus, 70 μ. diam., pertusis, contextu laxiuscule parenchymatico fuligineo; sporulis oblongo-ovoideis, $6 \simeq 3$, 2-guttulatis, hyalinis. 98

Hab. in pag. sup. foliorum Vitis viniferæ, Casale Monferrato et Selva in Italia boreali. — *Phyllosticta Vitis* Fuck. et *Phyll. Vitum* Desm. in Hoffm. Ind. mycol. pag. 96 citatæ, mihi ignotæ sunt.

99. **Phyllosticta viticola** Thüm. Plze Weinst. p. 188 (1878) *Septoria viticola* Berk. sec. Ravenel. — Maculis magnis, subcircularibus, subtus fuscis, supra fusco-purpureis, limitatis; peritheciis amphigenis sed sæpius hypophyllis, paucis, minutis, globosis; sporulis breve ellipsoideis, 1-guttatis, $8\text{–}9 \simeq 4$, hyalinis. 99

Hab. in foliis vivis Vitis vulpinæ, Aiken in Carolina australi (H. W. Ravenel).

100. **Phyllosticta hedericola** Dur. et Mont. Syll. 279, Mich. I. p. 137. *Ph. destructiva* f. *Hederæ* Oudem. — Maculis epiphyllis, subcircularibus, arescendo dealbatis, latiuscule fusco-marginatis; peritheciis punctiformibus, prominulis, pertusis; sporulis oblongis, $6 \simeq 2^1/_2$, 2-guttulatis, hyalinis. 100

Hab. in foliis Hederæ Helicis, in Italia, Gallia, Algeria, Austria.

101. **Phyllosticta Hederæ** Sacc. et Roum. Mich. II. pag. 620. — Peritheciis epiphyllis, late et dense gregariis (in partibus arescenti- 101

bus), lenticularibus, 130 μ. diam., pertusis; sporulis minutissimis, oblongis, 4 ≃ 1, hyalinis.

Hab. in foliis Hederæ Helicis socia *Phoma cylindrospora*, in Gallia et Belgio.

102. **Phyllosticta concentrica** Sacc. Fungi Veneti Ser. V. 203. — Maculis latis, subcircularibus, arescendo expallentibus; peritheciis plerumque concentrice dispositis, lenticularibus 90–100 μ. diam., atris, poro amplo hiantibus, membranaceis; sporulis globosis v. ovoideis, 10 ≃ 8–9, minute pluriguttulatis, hyalinis. 102

Hab. in foliis Hederæ Helicis, Padova in Ital. bor.

103. **Phyllosticta cornicola** (DC.) Rabh. in Kl. Herb. myc. n. 454, *Depazea cornicola* DC. An huc *Phyll. Corni* West., Kx Flandr. I. 419? — Maculis epiphyllis majusculis, atrosanguineis, dein centro expallentibus; peritheciis paucis punctiformibus, lenticularibus, pertusis, 150–200 μ. diam.; sporulis oblongo-ellipsoideis, 7–9 ≃ 3–4, utrinque acutiusculis, 2-guttulatis, hyalinis. 103

Hab. in foliis Corni sanguineæ, sericeæ et paniculatæ, in Italia, Gallia, Sibiria, Amer. bor.

104. **Phyllosticta Corni** West. in Kickx Crypt. Fl. I. 419. — Maculis angulosis, fusco-nigrescentibus, dein centro albis; peritheciis sparsis, paucis (3–6), punctiformibus, nigris, epiphyllis, 10 ≃ 5. 104

Hab. in foliis Corni albæ, in Belgio (Westendorp).

105. **Phyllosticta insulana** Mont. Pl. Cell. VII. Cent. n. 14. — Hypophylla, maculis folio decolorato pallidis, lineola brunnea tenuissima flexuosa cinctis; peritheciis minutissimis, atris, confluentibus; sporulis atomisticis, 6 μ. longis. 105

Hab. in foliis Oleæ Europeæ, circa Montaud-lès-Miramas in Gallia (Castagne). — Maculæ 1,5–5 mill. diam.

106. **Phyllosticta fraxinicola** Curr. Simpl. Sphær. n. 388. f. 148 (sub *Depazea*). — Maculis subcircularibus v. irregularibus, fuscis, atro-marginatis; peritheciis minutis, nigris; sporulis ellipticis v. subturbinatis v. subcymbiformibus, 5–7,5 μ. longis. 106

Hab. in foliis Fraxini, in Germania et Gallia.

107. **Phyllosticta Ligustri** Sacc. Mich. I. p. 134. — Maculis arescendo expallentibus, variis fusco-cinctis; peritheciis epiphyllis, lenticularibus, pertusis, 60 μ. diam.; sporulis ovoideis, 6–7 ≃ 2½–3, 2-guttatis, hyalinis, initio basidiis æquilongis suffultis. 107

Hab. in foliis Ligustri vulgaris, Selva, Susegana in Italia boreali et Coimbra in Lusitania. — *Depazea Ligustri* Desm. est = *Septoria Ligustri* Desm., ergo non Phyllosticta mea. Utra-

que verisimiliter sistit spermogonia *Sphærellæ Ligustri* (Desm.) Fuck.

108. **Phyllosticta ligustrina** Sacc. et Speg. Mich. I. p. 160. — Maculis 108
versiformibus, arescendo sordide lutescentibus; peritheciis gregariis, olivaceo-fuscis, lenticularibus, 150–200 μ. diam., pertusis; sporulis globoso-ovoideis, 4–6 ≃ 3–4, pallide olivaceis.

Hab. in foliis Ligustri vulgaris, Costa (Vittorio) in Italia boreali.

109. **Phyllosticta Syringæ** West. Not. II. 23. Kickx. Flandr. I. 417. 109
— Maculis amplis arescendo ochraceis, irregularibus, sæpius fusco-marginatis; peritheciis punctiformibus epiphyllis, lenticularibus, pertusis; sporulis ovato-oblongis, 8 ≃ 3, 2-guttulatis, hyalinis.

Hab. in foliis Syringæ vulgaris, in Italia, Gallia, Belgio, Lusitania. — Cl. Oudemans hanc ut formam *Phyll. destructivæ* Desm. considerat, sed hæc secundum Desm. sporulas 1–2-septatas, 10 ≃ 5 gerit.

110. **Phyllosticta jasminica** Thüm. Contr. Mycol. Lusit. — Peri- 110
theciis epiphyllis, minutis, sparsis, emerso-punctiformibus, nigris, in macula arescendo luteo-albida, irregulari, plerumque marginali, late zonata, fusco-purpureo cincta, subtus tota fusca, magna; sporulis paucis, minutissimis, simplicibus, ellipsoideis, enucleatis, hyalinis, 2,5–3 ≃ 1,5.

Hab. in foliis vivis Jasmini azorici, Coimbra in Lusitania, in horto botanico (Moller). — *Phyllosticta Jasmini* Sacc. in Michelia I. pag. 138 differt maculis diversis, sporulis majoribus et biguttulatis.

111. **Phyllosticta Jasmini** Sacc. Mich. I. p. 138. — Maculis subcircula- 111
ribus, arescendo candidis, tenuiter ochraceo-marginatis; peritheciis punctiformibus, lenticularibus, sparsis; sporulis oblongis, utrinque acutiusculis, 5 ≃ 3, obsolete 2-guttulatis, hyalinis.

Hab. in foliis Jasmini officinalis, Conegliano in Ital. bor.

112. **Phyllosticta goritiensis** Sacc. *Depazea Phillyreæ* Thüm. Contr. 112
F. Litor. n. 182, t. I. f. 21. — Peritheciis amphigenis, sparsis, prominulis, medio emersis, globosis, nigris in macula exarida, dilacerata, plus minusve orbiculata, fusco marginata; sporulis numerosissimis, cylindraceis, rectis, utrinque rotundato-obtusatis, simplicibus, hyalinis, 3–4 ≃ 1–1,5.

Hab. ad folia viva Phillyreæ angustifoliæ, Gorizia in Illyrio italico. — A *Depazea phillyreæcola* Rabh. in Klotzsch, Herb. mycol. n. 1646 diversa videtur, teste Thümen.

113. **Phyllosticta Phillyreæ** Sacc. Mich. I. p. 531. — Maculis epiphyllis, variis, griseo-ochraceis, rufo-marginatis; peritheciis punctiformibus, hemisphæricis, 80-100 μ. diam., pertusis; sporulis oblongo-fusoideis, 6-7 ≃ 3, 2-guttulatis, hyalinis. 113

Hab. in foliis Phillyreæ latifoliæ et mediæ, in Illyrio, in Italia boreali et Gallia.

114. **Phyllosticta phillyricola** Rabenh. Herb. Myc. 1646, Bot. Zeit. 1852, p. 287. — Peritheciis.....; sporulis continuis, hyalinis. 114

Hab. in foliis Phillyreæ.

115. **Phyllosticta phillyrina** Thüm. Contr. Myc. Lusitan. — Peritheciis epiphyllis, pro ratione magnis, solitariis, hemisphærico-exsertis, nitido-atris in macula plus minusve orbiculata, parva, ochracea, subexarida, late sordide fusco-marginata; sporulis longe ellipticis, utrinque subrotundatis, enucleatis, hyalinis, 4-5 ≃ 2-2,5. 115

Hab. ad folia viva et languida Phillyreæ obliquæ, Serra, da Louzã 700 met. alt. in Lusitania (Moller).

116. **Phyllosticta Rhododendri** West. Bull. Ac. Bruxell. I. 851, p. 399. — Maculis rubiginoso-fuscis, ad marginem foliorum plerumque sitis; peritheciis epiphyllis, prominulis, atris; sporulis cylindraceo-ovoideis, 3-4-guttulatis; cirris incarnatis. 116

Hab. in foliis languidis Rhododendri arborei culti in Belgio et in ditione Goritiensi.

117. **Phyllosticta Saccardoi** Thüm. Contr. Myc. Lusit. *Ph. Rhododendri* Sacc. in Mich. I. pag. 531 non *Ph. Rhododendri* Westd. — Maculis epiphyllis, variis, fusco-marginatis; peritheciis paucis, punctiformibus, subvelatis, subhemisphæricis, 50 μ. diam., pertusis, contextu fulvo-ochraceo; sporulis perexiguis, oblongo-cylindraceis, 4 ≃ 1, hyalinis. 117

Hab. in foliis Rhododendri pontici, in Gallia et Lusitania.

118. **Phyllosticta Arbuti** (Desm.) Sacc. Mich. II. p. 87. *Cheilaria Arbuti* Desm,. 13 Not. p. 68. — Maculis minutis fuligineis; peritheciis epiphyllis, erumpentibus, minutissimis, confertis, atris, nitidis, rotundato-oblongis, rima (genuina?) dehiscentibus; sporulis ovoideis, minutissimis, 5 μ. long., 2-guttulatis, hyalinis. 118

Hab. in foliis emortuis Arbuti Unedonis, in Gallia.

119. **Phyllosticta microsticta** Dur. et Mont. Fl. Alg. I. 612, Mont. Syll. p. 279. — Epiphylla; maculis parvis fuscescentibus, tandem epidermide decolori albis, ambitu atro-fuscis, confluentibus; peritheciis paucis, minimis, tandem late apertis; ore lacero; sporulis atomisticis. 119

Hab. in foliis vivis Arbuti Unedonis, Alger (Durieu); in foliis ramulisque ejusdem in Lusitania (Moller).

120. **Phyllosticta Andromedæ** West. in Kickx Crypt. Fl. I. 416. — Peritheciis epiphyllis, nigris, nitidis, minutis, in maculis subcircularibus, brunneis, v. brunneo-cinereis, purpureo-marginatis; sporulis ovoideis, hyalinis, biguttulatis; cirris albidis. 120

Hab. in foliis Andromedæ cassinefoliæ, in hortis belgicis.

121. **Phyllosticta Garryæ** Cooke et Harck. Grev. IX. pag. 84. — Epiphylla; maculis ellipticis, griseis, purpureo-cinctis; peritheciis convexis, prominulis, atris, subnitidis; sporulis arcte ellipticis, hyalinis, continuis, 10-12 ≃ 2-2,5. 121

Hab. in foliis Garryæ ellipticæ, in Amer. boreali.

122. **Phyllosticta flavidula** Sacc. Mich. I. p. 531. — Maculis variis, arescendo expallentibus rufo-cinctis; peritheciis paucis velatis lentiformibus, 100 μ. diam., pertusis; sporulis ovoideis, 2½-3 ≃ 1, e hyalino luteolis, coacervatis melleis. 122

Hab. in foliis Callistemonis cultæ in hortis Saintes in Gallia (Brunaud).

123. **Phyllosticta clethricola** Ell. et Mart. Amer. Nat. 1882, p. 1002. Peritheciis amphigenis erumpentibus; maculis pallide fuscis, 2-10 mill. diam.; sporulis subhyalinis, guttulatis, ovoideis, 9 ≃ 6. 123

Hab. in foliis Clethræ alnifoliæ, Newfield New Jersey in America boreali.

124. **Phyllosticta limbalis** Pers. sec. Wallr. Crypt. Germ. n. 3706. *Depazea buxicola* Fr. S. M. II. 528. — Maculis oblongis candidis, fusco-marginatis, plerumque prope foliorum marginem; peritheciis raris, globulosis, nigricantibus; sporulis oblongis, hyalinis, 3-4-guttulatis, ampliusculis. 124

Hab. in foliis vivis Buxi sempervirentis, in Germania, Belgio, Gallia, Britannia, Italia.

125. **Phyllosticta buxina** Sacc. Mich. I. p. 137. — Maculis vagis, arescendo expallentibus; peritheciis sparsis, punctiformibus; sporulis oblongo-ellipsoideis, minutissimis, 4 ≃ 1½, utrinque 1-guttulatis, hyalinis. 125

Hab. in foliis Buxi sempervirentis, Selva in Ital. bor.

126. **Phyllosticta Germanica** Speg. Nov. Add. n. 151. — Peritheciis globosis, atro-olivaceis, parenchymati immersis minutis, globoso-lenticularibus, 100 μ. diam., maculis fuligineis insidentibus, contextu laxe membranaceo, dilute olivaceo, ostiolo parvo donatis; sporulis ellipticis vel ovoideis, chorinis, 4-6 ≃ 2-3, eguttulatis. 126

Hab. ad folia languida Myricariæ Germanicæ, in alveo Plavis in Ital. bor., socia *Pestalozzia funerea* Desm. var. *discolore* Speg.

127. **Phyllosticta Haynaldi** Roum. Sacc. et Mich. II. p. 342. — Maculis epiphyllis, vagis, vinoso-roseis; peritheciis dense gregariis, lenticularibus, 1/8 mill. diam., poro pertusis, epidermide velatis; sporulis ovoideis, 5 ≃ 2, minutissime biguttulatis, hyalinis. 127

Hab. in foliis Ilicis Aquifolii cultæ, Bagnères de Luchon in Gallia.

128. **Phyllosticta cistina** Thüm. Contr. Myc. Lusit. n. 367. *Phyllosticta Cisti* Roum. F. Gall. n. 236. — Peritheciis minutis, vix visibilibus, epiphyllis, exacte globosis, semiimmersis, atris in macula valde minuta, orbiculata, primo purpureo-nigra, demum exarescente cinerea, purpureo-cincta; sporulis minutissimis, ovoideo-globosis, simplicibus, enucleatis, achrois, 4 ≃ 1,5. 128

Hab. in foliis vivis languidisve Cisti salvifolii, crispi et laurifolii, in Gallia, Lusitania et Græcia.

129. **Phyllosticta Cameliæ** West. in Kickx Fl. Crypt. Fl. I. p. 416. — Peritheciis epiphyllis, minutis, nigris, globulosis, sparsis; maculis subcircularibus, fuscescentibus, dein expallentibus crasse rufo-marginatis; sporulis ovoideis, hyalinis, 2–3-guttulatis; cirris albidis. 129

Hab. in foliis Cameliæ japonicæ, in hortis Belgii et Galliæ.

130. **Phyllosticta Magnoliæ** Sacc. Mich. I. p. 139. — Maculis plerumque epiphyllis, versiformibus, arescendo dealbatis, non marginatis; peritheciis punctiformibus, lenticularibus, raris; sporulis oblongis, utrinque rotundatis, 4 ≃ 1½–2, hyalinis. 130

Hab. in foliis Magnoliæ grandifloræ, in horto Patavino in Ital. bor. — ***Ph. Cookei** Sacc. [*Ph. Magnoliæ* Cooke Grev. IX. p. 94, vix Sacc.]. A typo differt sporulis multo amplioribus, nempe 8–12 ≃ 3–4,5. In foliis Magnoliæ grandifloræ, in horto Kew in Britannia.

131. **Phyllosticta Mahoniæ** Sacc. et Speg. Mich. I. 153. — Maculis obsoletis; peritheciis sparsis, lenticularibus, punctiformibus, 200 μ. diam., poro angusto pertusis, ochraceo-fuligineis; sporulis ellipsoideis vel subrotundis, utrinque obtusiusculis, 4–6 ≃ 3–4, hyalinis. 131

Hab. in foliis dejectis Mahoniæ Aquifolii, Conegliano, Gorizia in Italia bor., et in Gallia.

132. **Phyllosticta japonica** Thüm. Contr. Myc. Lusit. — Peritheciis numerosis, epiphyllis, gregariis, minutis, punctiformibus, conico 132

emersis, longe diu tectis in macula magna arescendo-albida v. dilute luteo-alba, distincte fuscidulo-marginata, subtus sordide ochracea; sporulis numerosis, ellipsoideis, utrinque rotundatis, grosse 1-nucleatis, 4–4,5 ≃ 2,5–3, hyalinis.

Hab. in foliis subvivis Mahoniæ japonicæ, Coimbra in Lusitania, in horto botanico (Moller). — *Ph. Mahoniæ* Sacc. et Speg. in Mich. I. p. 153 valde differt defectu macularum et sporularum magnitudine!

133. **Phyllosticta Westendorpii** Thüm. Pilzfl. Sibir. n. 804, *Ph. Berberidis* West. in Kickx Fl. d. Flandres, I. p. 419, non Rabh. — Maculis angulosis, albidis, sanguineo-marginatis; peritheciis epiphyllis, nigris, punctiformibus, paucis; sporulis ovoideis, 2–3-guttulatis, hyalinis, 9–11 ≃ 5–5,5. 133

Hab. in foliis Berberidis vulgaris et altaicæ, in Belgio et Sibiria.

134. **Phyllosticta Berberidis** Rabh. in Herb. myc. n. 1865. — Maculis sinuosis arescendo griseis dein dealbatis; peritheciis epiphyllis, punctiformibus lenticularibus; sporulis ovoideis, 4–5 ≃ 3, hyalinis. 134

Hab. in foliis Berberidis vulgaris, in Germania, Austria, Gallia et Italia boreali. — Species homonyma Westendorpii, Kickx Flandr. I. 419, aliena videtur, nam ejusdem sporulæ majores sunt, nempe 10 ≃ 5 atque 2–3-guttulatæ.

135. **Phyllosticta Laureolæ** Desm. 14 Not. pag. 33. — Maculis amphigenis, helvolis, paucis, subrotundatis v. irregularibus; peritheciis epiphyllis, raro hypophyllis, numerosis, approximatis, nigris, nitidis, innato-prominulis, convexis, dein umbilicatis, poro pertusis. 135

Hab. in foliis languescentibus Daphnes Laureolæ, in Gallia et Lusitania. — Sporulæ, teste Thümen, continuæ, ellipsoideæ, enucleatæ, hyalinæ, 6 ≃ 4–4,3.

136. **Phyllosticta Nerii** West. Exs. n. 963, Kickx F. Flandr. I. 148. — Maculis subcircularibus angulosisve, candidis, zona fusca elevata cinctis; peritheciis amphigenis, innatis, dein prominulis, sparsis, atris; sporulis hyalinis, ovoideo-oblongis, 2-guttulatis (« 15–18 ≃ 5–6, nubilosis vel 1-guttatis »). 136

Hab. in foliis Nerii Oleandri, in Italia, Gallia, Belgio et Lusitania. — *Dothidea circinans* Roum. F. Gall. 123 huc forte spectat, sed exemplaria visa nimis imperfecta.

137. **Phyllosticta Opuntiæ** Sacc. et Speg. Mich. I. p. 156. — Maculis variis, arescendo candidis, margine subelevato lutescenti cinctis; 137

peritheciis gregariis, lenticularibus, 150 μ. diam., pertusis, laxe cellulosis fuligineis; sporulis ovoideis, 5–8 ≃ 3–3½, curvulis rectisve, dilute olivaceis.

Hab. in cladodiis Opuntiæ Ficus indicæ, Conegliano in Italia boreali.

138. **Phyllosticta Paulowniæ** Sacc. Mich. I. p. 143. — Maculis variis 138
sinuosis, confluentibusque, arescendo ochraceis, saturatius marginatis; peritheciis epiphyllis, punctiformibus, gregariis, lenticularibus; sporulis oblongis, minutissimis, 3 ≃ 1½, hyalinis.

Hab. in foliis Paulowniæ imperialis, Vittorio in Italia bor., et in Gallia.

139. **Phyllosticta Forsythiæ** Sacc. Fung. ital. 87. Mich. n. I. p. 93. — 139
Maculis subcircularibus, arescendo ochraceis, vix marginatis; peritheciis epiphyllis, sæpe concentrice dispositis, lenticularibus, pertusis, 150–180 μ. diam., initio velatis, fulvis; sporulis ovoideis, 5–7 ≃ 2½–3, 2-guttulatis, hyalinis.

Hab. in foliis Forsythiæ suspensæ, in horto botanico Patavino in Italia boreali.

140. **Phyllosticta Weigeliæ** Sacc. et Speg. Mich. I. p. 139. — Maculis 140
variis, arescendo candidis; peritheciis sparsis, lenticularibus, 150–200 μ. diam., pertusis, contextu minuto parenchymatico, atro; sporulis oblongo-ellipsoideis inæqualibus, 2-guttulatis, 6–8 ≃ 3, hyalinis.

Hab. in foliis Weigeliæ roseæ, Conegliano in Ital. bor., et in Gallia.

141. **Phyllosticta Tiliæ** Sacc. et Speg. Mich. I. p. 158. — Maculis 141
versiformibus arescendo dilute ochraceis, fuligineo-marginatis; peritheciis sparsis, lenticularibus, 120 μ. diam., pertusis, contextu parenchymatico laxo, subolivaceo; sporulis ellipsoideis, utrinque obtusis, 5–6 ≃ 3, dilute chlorinis.

Hab. in foliis Tiliæ europeæ, Conegliano in Ital. bor.

142. **Phyllosticta Syriaca** Sacc. Mich. I. p. 136. — Maculis sinuosis va- 142
riis arescendo dealbatis late fusco-cinctis; peritheciis remotiusculis, punctiformibus, lenticularibus, 50 μ. diam., pertusis; sporulis ovoideis v. subellipsoideis, 7 ≃ 3–4, hyalinis.

Hab. in foliis Hibisci syriaci, Vittorio in Italia bor. et Coimbra in Lusitania. — A *Phoma maculari* Desm. prorsus diversa.

143. **Phyllosticta Schini** Thüm. Contr. Myc. Lusitan. — Peritheciis 143
sparsis, solitariis, epiphyllis, hemisphærico-emersis, nigris, mediis in macula ochraceo-fusca, magna, irregulari, zona obscuriore cin-

cta; sporulis ellipsoideis, utrinque rotundatis, continuis, non guttulatis, achrois, 3 ≃ 1.

Hab. in foliis vivis Schini Molle, Coimbra in Lusitania, in horto botanico (Moller).

144. **Phyllosticta Henriquesii** Thüm. Contr. Myc. Lusit. — Peritheciis epiphyllis, submagnis, lenticulari-subhemisphæricis, emersis, sparsis, aterrimis, in macula orbiculari, arescendo albida, purpureo-cincta; sporulis ellipsoideis, continuis, utrinque acutato-rotundatis, uni- vel biguttulatis, achrois, 5-6 ≃ 2,5-3. 144

Hab. in foliis languidis Tecomæ radicantis, Coimbra in Lusitania in horto botanico (Moller). — A *Phyllosticta Tecomæ* Sacc. in Mich. I. p. 148, macularum colore et sporularum magnitudine satis diversa.

145. **Phyllosticta erysiphoides** Sacc. Mich. I. p. 620. — Peritheciis gregariis in pag. inf. dealbata, subinnatis, hemisphæricis, 110 μ. d., pertusis; sporulis oblongis, utrinque obtusis, 4-4,5 ≃ 2,5, hyalinis. 145

Hab. in foliis Tecomæ radicantis, Saintes in Gallia (Brunaud). — Spermogonium *Sphærellæ erysiphoidis* Sacc.

146. **Phyllosticta Tecomæ** Sacc. Mich. I. p. 148. — Maculis versiformibus, arescendo fulvo-ochraceis; peritheciis sparsis lenticularibus, 90-100 μ. diam., pertusis, contextu laxiuscule fuligineo; sporulis oblongo-ovoideis 8 ≃ 3-3 1/2, 2-guttulatis, hyalinis, basidiis æquilongis filiformibus fultis. 146

Hab. in foliis Tecomæ radicantis, Vittorio in Italia bor., Coimbra in Lusitania.

147. **Phyllosticta Bignoniæ** West., Thüm. F. A. n. 1075, Mich. I. p. 137. — Maculis versiformibus, arescendo albido-griseis sæpe rufo-marginatis; peritheciis punctiformibus, lenticularibus, 70-90 μ. d.; sporulis oblongo-ovoideis, 5-7 ≃ 2 1/2-3 1/2, 2-guttulatis, hyalinis. 147

Hab. in foliis Catalpæ syringifoliæ, Conegliano in Italia boreali et in Belgio. — Sec. West. sporulæ 10 ≃ 3,3.

148. **Phyllosticta Tweediana** Penz. et Sacc. F. Mort. n. 15, tab. IV. fig. 4. — Peritheciis laxe congregatis, minimis, punctiformibus, 120-130 μ. diam., hypodermicis, dein prorumpentibus, atris, ostiolatis, sphæroideis, paullum compressis, tenuibus; sporulis breviter cylindraceis, utrinque rotundatis, eguttulatis, 3-5,4 μ. long., 1,7-2 μ. crassis, hyalinis. 148

Hab. in capsulis Bignoniæ Tweedianæ, Mortola in Italia boreali (O. Penzig).

149. **Phyllosticta Sterculiæ** Winter Contr. Myc. Lus. n. 802. — Ma- 149

culis irregularibus, angulatis, pallide ochraceis, demum arescendo-candicantibus, late et indeterminate violaceo cinctis; peritheciis raris, subglobosis, fuscis, epiphyllis, 60–65 μ. lat.; sporulis oblongis vel clavatis, medio interdum perparum constrictis, spurie uniseptatis, hyalinis, 8–9 ≃ 3.

Hab. ad folia viva Sterculiæ heterophyllæ, in horto botanico Coimbra in Lusitania.

150. **Phyllosticta auriculata** Kalchb. et Cooke Grev. IX. p. 20. — Epiphylla; maculis orbicularibus, pallidis, purpureo-cinctis; peritheciis punctiformibus, immersis, poro pertusis; sporulis ellipticis, continuis, hyalinis 5 μ. longis. 150

Hab. in foliis Buddlejæ auriculatæ, in Africa austr.

151. **Phyllosticta argyrea** Speg. Fung. Arg. Pug. II. 121. — Maculis epiphyllis, latis, orbiculari-difformibus, candidissimis; peritheciis densiuscule sparsis, punctiformibus, 90–100 μ. diam., atris; sporulis ellipticis, simplicibus, hyalinis, 3–5 ≃ 1–2. 151

Hab. in foliis languidis Elæagni arboreæ, in horto botanico Parco Julio in Argentina.

152. **Phyllosticta Cocculi** Thüm. in Rev. Mycol. — Peritheciis epiphyllis, sparsis, minutis, semiimmersis, punctiformi-conicis, atris in macula irregulari, arescendo-grisea, anguste nigro-fuscescente cincta, in pagina foliorum inferiore fusca; sporulis oblongis vel ellipsoideis, utrinque acutatulo-obtusis, simplicibus, achrois 10 ≃ 3,5–4. 152

Hab. in foliis vivis languidisve Anamirtæ Cocculi, Canara in Ind. or. (Dr. Keck).

153. **Phyllosticta Linocieræ** Thüm. in Roum. Rev. Mycol. — Peritheciis epiphyllis, mediis, sparsis, hemisphæricis, punctiformibus semiimmersis, nitido-atris, in macula orbiculari, concavo-elevata, postremo centro immerso et dilabente, lacerata, arescendo-nivea, linea ferruginea anguste cincta; sporulis ellipticis, continuis, vertice rotundatis, basi subangustatis, achrois, 9–10 ≃ 3,5–4,5. 153

Hab. in foliis vivis Linocieræ purpureæ (Chionanthi zeylanicæ Lin.), in insula Ceylon (Thwaites). — A *Sphæria Chionanthi* Berk. et Br. Fungi of Ceylon II. pag. 129 valde diversa.

154. **Phyllosticta Chionanthi** Thüm. in Mycoth. univers. n. 1489. — Peritheciis epiphyllis, sparsis, primo longe diu tectis, demum perforantibus, hemisphærico-emersis, nigris, mediis in macula arescendo ochraceo-albida, valde irregulari, subtus ochracea, linea 154

rufo-fusco anguste marginata: sporulis ellipsoideis, utrinque rotundatis, simplicibus, enucleatis, hyalinis, 3.5–5,5 ≃ 2–2,5.

Hab. in foliis vivis Chionanthi virginicæ, in horto botanico Coimbra in Lusitania (Moller). — A *Phyllosticta Linocieræ* Thüm. in Revue mycologique II. 1880, p. 36 ad *Linocieræ zeylanicæ* Hook. (*Chionanthi zeylanici* Lin.) folia viva, sporulis dimidio minoribus valde diversa.

155. **Phyllosticta Azedarachis** Thüm. Contr. Micol. Litor. n. 221, t. I. f. 24. — Peritheciis gregariis, minutis, prominulis, globosis, atris in macula exarida, irregulari, albo-lutescenti, fusco-marginata, epiphylla: sporulis ellipsoideis, utrinque rotundatis, sine nucleis, numerosissimis, hyalinis, 5 ≃ 3. 155

Hab. in foliis vivis Meliæ Azedarachis, Gorizia in Ital. bor.

156. **Phyllosticta Aucubæ** Sacc. et Speg. Mich. I. p. 153. — Maculis obsoletis v. nullis; peritheciis gregariis subcuticularibus, punctiformibus, 80–90 μ. diam., prominulis, anguste pertusis; sporulis oblongis, utrinque obtusiusculis, $2^1/_2$–3 ≃ $^3/_4$–1, hyalinis. 156

Hab. in foliis dejectis Aucubæ japonicæ, Conegliano in Italia bor. (Spegazzini).

157. **Phyllosticta aucubicola** Sacc. Mich. II. p. 276. — Maculis vagis amplis, arescendo expallentibus; peritheciis plerumque epiphyllis gregariis, punctiformibus, lenticularibus, 150 μ. diam., pertusis; sporulis obovatis, 6 ≃ 3–$3^1/_2$, nubilosis, hyalinis. 157

Hab. in foliis languidis Aucubæ japonicæ, in horto Patavino — A *Phyll. Aucubæ* Sacc. et Speg. probe diversa.

158. **Phyllosticta Liriodendri** Thüm. Contr. Mic. Lit. n. 213, tab. I. fig. 30. — Peritheciis epiphyllis, minutis, gregariis, semiimmersis, globosis, nigris in maculis parvis, orbiculatis, exaridis, griseis; sporulis minutis, ellipsoideis, utrinque rotundatis, simplicibus, enucleatis, numerosis, 5–6 ≃ 3, achrois. 158

Hab. in foliis vivis Liriodendri Tulipiferæ, Gorizia.

159. **Phyllosticta liriodendrica** Cooke Grev. XII. p. 26. (*Ph. Liriodendri*). — Epiphylla; maculis orbicularibus, fuscis, albescentibus, fusco-limitatis; peritheciis paucis, punctiformibus, centro congregatis, atris; sporulis ellipticis, hyalinis, 6 ≃ 2. 159

Hab. in foliis Liriodendri, in Carolina Austr. (Ravenel).

160. **Phyllosticta Ailanthi** Sacc. Mich. I. p. 148. — Maculis latiusculis, irregularibus, arescendo pallide ochraceis, rufo-cinctis; peritheciis remotiusculis, punctiformibus e globoso lenticularibus 50–60 μ. d., pertusis, laxe cellulosis; sporulis oblongo-ovoideis, 7–10 ≃ 4, hyalinis. 160

Hab. in foliis Ailanthi glandulosæ, Selva in Italia bor.

161. **Phyllosticta destruens** Desm. Ann. S. N. 1847, p. 31. — Maculis arescendo albicantibus; peritheciis punctiformibus, hemisphæricis, epiphyllis; sporulis ex oblongo ovoideis, 5 ≃ 1¾-2, hyalinis. 161

Hab. in foliis Celtidis australis, Pruni lusitanicæ, in Italia, Gallia, Austria, Lusitania. — Var. **Aceris platanoidis**: peritheciis lenticularibus, pertusis, 80-100 μ. diam.; sporulis 7 ≃ 2-2,5, biguttatis, hyalinis.

162. **Phyllosticta juglandina** Sacc. Mich. I. p. 155. — Maculis vagis arescendo dealbatis fusco-cinctis; peritheciis punctiformibus, lenticularibus; sporulis ovoideis, minutissimis, 4 ≃ 2, e hyalino olivaceis. 162

Hab. in foliis Juglandis regiæ, Vittorio in Italia boreali et Coimbra in Lusitania.

163. **Phyllosticta Juglandis** (DC.) Sacc. Mich. I. p. 135, *Xyloma Juglandis* DC. — Maculis vagis arescendo dealbatis fusco-cinctis; peritheciis epiphyllis, sparsis, punctiformibus, lenticularibus, 80 μ. diam., pertusis; sporulis ovoideo-oblongis, 6-7 ≃ 3-4, minute 2-guttulatis, hyalinis. 163

Hab. in pag. sup. foliorum Juglandis regiæ languidorum, in Italia boreali, Austria et Gallia.

164. **Phyllosticta Pterocaryæ** Thüm. Contr. Fl. Myc. Lus. — Peritheciis epiphyllis, numerosis, minutis, gregarie densis, punctiformibus, atris in macula irregulari, sæpe marginali, arescendo griseo-ochracea, sordide fusco-cincta, subtus fuscidula; sporulis ellipsoideis, utrinque subacutato-rotundatis, enucleatis, hyalinis, 4,5-6 ≃ 3,5-4. 164

Hab. in foliis vivis Pterocaryæ caucasicæ, in horto botanico Coimbra in Lusitania (Moller).

165. **Phyllosticta alnigena** Thüm. Contr. Myc. Lus. n. 370. — Peritheciis hypophyllis, gregariis, in circulo sæpe dispositis, emersis, minutissimis, obscure griseis in macula arescendo ochraceo-fulva, orbiculari, concentrice zonata, magna; sporulis bacillaribus, rectis vel subarcuatis, utrinque rotundatis, continuis, hyalinis, 10 ≃ 3. 165

Hab. ad folia viva Alni cordifoliæ, Choupal prope Coimbra in Lusitania (Moller).

166. **Phyllosticta Coryli** West. in Bull. Ac. Belg. XIX, n. 9, Mich. I. p. 138. — Maculis variis satis amplis, ochraceo-fuscis, dein sordide albicantibus; peritheciis lenticularibus, 100-150 μ. diam., pertusis, contextu parenchymatico luteo-fuligineo; sporulis ellipsoideis, 7-8 ≃ 2-3½, utrinque rotundatis, 2-guttulatis, hyalinis. 166

Hab. in foliis Coryli Avellanæ, in Belgio et Italia bor.

167. **Phyllosticta corylaria** Sacc. Mich. I. p. 153. — Maculis vagis, sinuosis, arescendo pallide ochraceis, brunneo-marginatis; peritheciis remote sparsis, punctiformibus, hemisphæricis, prominulis, 80 μ. diam., pertusis, contextu minute celluloso; sporulis ovato-oblongis, 4-4$^1/_2$ ≃ 2, dilute olivaceis. 167

Hab. in foliis Coryli Avellanæ, Selva in Italia bor. — A *Cheilaria* (Labrella) *Coryli* Desm. toto cœlo diversa.

168. **Phyllosticta carpinea** Sacc. Mich. I. p. 158. — Maculis subcircularibus, sinuosisve majusculis, arescendo dilute ochraceis, brunneo-marginatis; peritheciis sparsis, punctiformibus, pertusis; sporulis e globoso ovoideis, 4-3, e hyalino olivaceis. 168

Hab. in foliis Carpini Betuli et C. Duinensis, in Italia boreali.

169. **Phyllosticta Carpini** Schulz. et Sacc. Micr. Slav. n. 54, Schulz. Ill. Fung. Slav. n. 8, 9. — Peritheciis gregariis, hypophyllis, epidermide tumidula tectis, globosis, vix pertusis, 60-100 μ. d.; sporulis oblongis, utrinque rotundatis, 5-6 μ. longis, hyalinis. 169

Hab. in foliis Carpini Betuli, socia *Melampsoreæ,* prope Vinkovce. — A *Phyll. carpinea* differt peritheciis prominulis; sporulis oblongis nec subglobosis, prorsus hyalinis.

170. **Phyllosticta betulina** Sacc. Mich. I. p. 154. — Maculis nullis; peritheciis epiphyllis hinc inde dense maculiformiter aggregatis, innato-prominulis, globoso-lenticularibus, atris; sporulis botuliformibus minutis, 4-6 ≃ 1-1'$/_4$, curvulis, hyalinis. 170

Hab. in foliis Betulæ albæ, socia *Sphærella maculiformi* f. *Betulæ,* cujus videtur spermogonium, Conegliano in Italia boreali, et in Gallia.

171. **Phyllosticta sycophila** Thüm. Contr. F. Litor. n. 212, fig. 26. — Peritheciis epiphyllis, raro amphigenis, sparsis, erumpentibus, globoso-conicis, ostiolatis, plus minusve parvulis, atris in maculis maximis, irregularibus, exaridis, albicantibus; sporulis minutis, ovatis vel cylindrico-ovatis, utrinque rotundatis, simplicibus, binucleatis, hyalinis, 3-4 ≃ 2. 171

Hab. ad folia viva languidave Ficus Caricæ, in ditione Goritiensi nec non in Gallia et Lusitania. — Specimina gallica præbuerunt sporulas 5-6 ≃ 4.

172. **Phyllosticta Platani** Sacc. et Speg. Mich. I. p. 153. — Maculis obsoletis; peritheciis sparsis, punctiformibus, lenticularibus, luteo- 172

lis; sporulis ovoideo-oblongis, 5-6 ≃ 1-1½, minute 2-guttulatis, nubilosis hyalinis.

Hab. in pag. infer. foliorum Platani orientalis, Conegliano in Italia boreali.

173. **Phyllosticta ulmicola** Sacc. Mich. I. p. 158. — Maculis vagis, majusculis, arescendo ochraceis, margine concolori; peritheciis gregariis, punctiformibus, 70-80 diam., lenticularibus, pertusis; sporulis oblongo-ellipsoideis, 6 ≃ 3, e hyalino olivaceis. 173

Hab. in foliis Ulmi campestris, Selva in Italia bor. — A *Phyll. Ulmi* West. Fl. Batav. Fung. 99 differt maculis ochraceis nec griseis, sporulisque minoribus (nec 10 ≃ 5) pallide coloratis nec hyalinis.

174. **Phyllosticta Ulmi** West. Bull. Ac. Belg. II. Ser. XII. vol. n. 7. — Maculis amphigenis, subcircularibus, sparsis, confluentibusque, cinerascentibus, immarginatis, subinde sterilibus; peritheciis raris, perexiguis, sparsis, pertusis; sporulis ovoideis, 1-2-guttulatis, hyalinis, 10 ≃ 5. 174

Hab. in foliis emortuis Ulmorum, Louvain in Belgio (E. Martens).

175. **Phyllosticta populea** Sacc. Mich. I. p. 135. — Maculis irregularibus, sinuosis, arescendo candicantibus, fusco-marginatis; peritheciis remotis, punctiformibus, lenticularibus, prominulis, pertusis; sporulis breve cylindraceis, 3½ ≃ ½, quandoque medio subconstrictis sed continuis, utrinque rotundatis et minute 1-guttulatis, hyalinis. 175

Hab. in pag. super. foliorum Populi albæ, Covolo in Italia boreali.

176. **Phyllosticta populina** Sacc. Mich. I. 155, *Depazea populina* Sacc. Myc. Ven. 193, an Fuck. — Maculis angulosis, arescendo candidis, nigromarginatis; peritheciis punctiformibus, pertusis; sporulis ellipsoideis vel ovoideis, 6 ≃ 3, e hyalino olivaceis. 176

Hab. in pag. sup. foliorum Populi nigræ, socia *Septoria Populi* Desm., Selva in Ital. bor. — Quo spectent *Phyll. populina* Pers. et *Phyll. populnea* Desm. (in Oudem. Mat. Neerl. II, 23) prorsus ignoro.

177. **Phyllosticta Populorum** Sacc. et Roum. Mich. II. p. 620. — Peritheciis epiphyllis in partibus adhuc vivis gregariis, tectis, lenticularibus, 80 μ. diam., late pertusis, contextu laxe celluloso, subochraceo; sporulis oblongis, sæpe curvulis, 6-7 ≃ 3, 2-guttatis, hyalinis. 177

Hab. in foliis Populi balsamiferæ, Malmedy in Gallia, et in Germania.

178. **Phyllosticta Alcides** Sacc. Mich. I. pag. 135. — Maculis sinuosis, arescendo albidis, fusco-cinctis; peritheciis sparsis, punctiformibus; sporulis ovoideis, utrinque obtuse subattenuatis, 1-guttulatisque, 5 ≃ 3, hyalinis. 178

Hab. in pag. sup. foliorum Populi albæ, Covolo in Ital. bor. 179

179. **Phyllosticta osteospora** Sacc. Mich. I. 531. — Maculis rufescentibus variis v. obsoletis; peritheciis hinc inde aggregatis, tectis, globulosis, 80-90 μ. diam., pertusis; sporulis bacillaribus, 6-7 ≃ 1, rectis, utrinque incrassatis (humeriformibus), hyalinis.

Hab. in foliis Populi nigræ, Fraxini, Mori et Rhamni, in Italia et Gallia.

180. **Phyllosticta bacteriiformis** (Pass.) Sacc. *Ascochyta bacteriiformis* Pass. in Myc. univ. n. 994. — Sporulis bacillaribus, tenuissimis, ad apices leviter incrassatis, hyalinis. 180

Hab. in foliis elapsis Populi nigræ, Vigheffio in Ital. bor.

181. **Phyllosticta globulosa** Thüm. Contr. Fl. mic. Lit. pag. 324. — Peritheciis epiphyllis, sparsis, parvulis, hemisphærico-emersis, nigris in macula irregulari, arescendo sordide griseo-albida, anguste sed distincte linea rufa marginata, postremo dilacerata; sporulis subglobosis vel ovato-globosis vel fere guttulæformibus, grosse uni-binucleatis, simplicibus, hyalinis, 6-9 μ. diam. 181

Hab. ad folia viva Quercus pedunculatæ, Parenzo in Istria.

182. **Phyllosticta Quercus** Sacc. et Speg. Mich. I. p. 138. — Maculis variis, subrotundisve, arescendo albicantibus; peritheciis punctiformibus, lenticularibus, 200 μ. diam., latiuscule pertusis, olivaceo-fuligineis; sporulis ellipsoideis, rectis curvulisve, 7-9 ≃ 2½-4, obsolete 1-2-guttulatis, hyalinis. 182

Hab. in foliis languidis quercinis, Susegana in Italia boreali, et in Gallia (Spegazzini).

183. **Phyllosticta vesicatoria** Thüm. F. Americ. n. 16, in Flora, 1878. — Peritheciis epiphyllis, sparsis, globosis, semiimmersis, mediis, atris, ostiolatis, in macula magna, exarida, vesiculosa, girseo-fusca, purpureo-limitata; sporulis minutissimis, ellipsoideo-cylindricis, utrinque rotundatis, rectis, hyalinis, simplicibus, diaphanis, 2,5 ≃ 1,5. 183

Hab. ad folia viva languidave Quercus cinereæ, Aiken in Amer. bor. (H. W. Ravenel).

184. **Phyllosticta ilicina** Sacc. Mich. I. p. 136. — Maculis vagis, pallidis, exaridis, obsolete marginatis; peritheciis lenticularibus, prominulis, 60–70 μ. diam., pertusis, remotis; sporulis ovoideo-oblongis, 8–10 ≃ 3½–4, 2-guttulatis, hyalinis. 184

Hab. in foliis Quercus Ilicis, in Ital. bor., Austria et Lusitania.

185. **Phyllosticta phomiformis** Sacc. Mich. I. p. 573. — Maculis vagis, ochraceis; peritheciis laxe gregariis, globoso-lenticularibus, pertusis, 130–150 μ. diam., solidiusculis, nigris; sporulis oblongis, utrinque acutiusculis, 20–22 ≃ 8–10, granulosis, hyalinis; basidiis brevissimis, sursum acutatis. 185

Hab. in foliis Quercus albæ, in Pensylvania (Doct. G. Martin).

186. **Phyllosticta Quercus-Ilicis** Sacc. Mich. I. p. 155. — Maculis epiphyllis, subrotundo-sinuosis, arescendo candicantibus, linea atro-rufa distincte marginatis; peritheciis gregariis, punctiformibus, lenticularibus, epidermide velatis; sporulis ellipsoideo-oblongis, 5 ≃ 4, luteolis. 186

Hab. in foliis Quercus Ilicis, in horto Boboli Florentiæ in Italia boreali. — A *Phyll. ilicina* Sacc. statim distinguenda.

187. **Phyllosticta quernea** Thüm. F. Austr. n. 81. — Maculis variis, irregularibus vel subsinuosis, arescendo griseo-ochraceis, anguste fusco marginatis, cito dilaceratis et exesis; peritheciis sparsis, epiphyllis, conico-emersis, parvis, nigris; sporulis ellipticis vel ovoideis, utrinque rotundatis, enucleatis, pallidissime griseis, 3,5–5 ≃ 2,5. 187

Hab. ad folia viva Quercus pubescentis, Kalksburg in Austria (Wiesbaur). — A *Phyllosticta Quercus* Sacc. Mich. I. p. 138 valde diversa macularum forma et sporularum magnitudine.

188. **Phyllosticta Quercus-rubræ** W. R. Ger. Bull. Torr. 1875, p. 78. — Maculis paucis subcircularibus v. irregularibus, albidis, rubido-marginatis; peritheciis epiphyllis, numerosis, minutis, globosis, nigris, in centro maculæ congestis; sporulis perexiguis ovoideis. 188

Hab. in foliis Quercus rubræ, Poughkeepsie in Amer. bor.

189. **Phyllosticta maculiformis** Sacc. Mich. II. p. 538. — Peritheciis hypophyllis, hinc inde in greges minutos, atros, maculiformes junctis, globoso-depressis, pertusis, 80–100 μ. diam.; sporulis cylindraceis, curvulis, 4 ≃ 1, hyalinis. 189

Hab. in foliis languidis v. emortuis Castaneæ vescæ, in montanis Tridentinis (Bresadola). — Spermogonium videtur *Sphærellæ maculiformis*. Huc verisimiliter spectat *Sphæria* (Sphæropsis) *maculiformis* Curr. Simpl. Sphær. pag. 332.

190. **Phyllosticta Carissæ** Kalch. et Cooke Grev. IX. p. 20. — Epi- 190
phylla; maculis suborbicularibus, pallide fuscis, brunneo-cinctis; peritheciis punctiformibus, papillatis, immersis; sporulis arcte ellipticis, hyalinis, 6 μ. longis.

Hab. in foliis Carissæ Arduinæ, in Africa meridionali.

191. **Phyllosticta Nyssæ** Cooke Grev. XII. pag. 26. — Epiphylla; 191
maculis pallidis, irregularibus, magnis, purpureo-cinctis; peritheciis minutissimis, punctiformibus, atris; sporulis subellipticis, hyalinis, 3,5 ≃ 1,5 μ.

Hab. in foliis Nyssæ capitatæ, Darien in Georgia (Ravenel).

192. **Phyllosticta Stigmaphylli** Speg. F. Arg. Pug. IV. n. 273. — 192
Maculis subindeterminatis, orbicularibus, 3–5 mill. diam., centro pallescentibus, peripherice fulvo-fuscescentibus, concentrice rugulosis; peritheciis epiphyllis, subperiphericis, innato-prominulis, hemisphæricis, 80–90 μ. diam., membranaceis, contextu indistincte parenchymatico; sporulis ellipticis, utrinque obtusiusculis, rectis v. vix inæquilateralibus, 8–11 ≃ 3, rarissime medio 1-pseudoseptatis, hyalinis.

Hab. in foliis vivis Stigmaphylli litoralis, in sepibus, Boca del Riachuelo in Argentina.

193. **Phyllosticta marmorata** Cooke Grev. IX. p. 13. — Maculis ni- 193
veis, numerosissimis, hinc illinc confluentibus; peritheciis paucis, 1–2, semiimmersis, punctiformibus, brunneis; sporulis ellipticis, hyalinis, 5 μ. long.

Hab. in foliis Malloti Philippinensis, Saharumpore in India (Duthie).

194. **Phyllosticta Napoleoneæ** Thüm. Contr. Fl. myc. Lusit. — Pe- 194
ritheciis epi- raro etiam hypophyllis, gregariis, submagnis, semiimmersis, conoideis, atris sæpe a Cladosporio obductis, in macula irregulari, exarida, sordide albescenti, magna, anguste sed distinctissime fusco-cincta, in pagina inferiore folii sordide ochraceo-fusca; sporulis ellipticis, simplicibus, utrinque rotundatis, achrois vel dilute cinerescentibus, 4,5 ≃ 3.

Hab. ad folia viva Napoleoneæ imperialis, Coimbra in Lusitania, in caldariis horti botanici (Moller).

195. **Phyllosticta bonariensis** Speg. F. Arg. Pug. I. 189. — Maculis 195
orbicularibus, determinatis, 3–6 mill., majusculis, subaridis, melleo-pallescentibus, areola exilissima purpurascente cinctis; peritheciis sparsis vel laxe gregariis, minutis, 90–100 μ. diam., lenticularibus,

membranaceis, contextu parenchymatico, fuligineo, ostiolo minuto donatis; sporulis ellipsoideis vel ovoideis, 5-8 ≃ 3-4, hyalinis.

Hab. ad folia viva vel languida Nectandræ speciei, ultra el Riachuelo in Argentina.

196. **Phyllosticta Heteromeles** Cooke et Harkn. Grev. IX. p. 84. — Epiphylla; maculis pallidis, orbicularibus vel confluentibus, nigro-limitatis; peritheciis convexis, atris; sporulis ellipticis, hyalinis, continuis, 8 ≃ 2. 196

Hab. in foliis Heteromeles, in America boreali.

II. *In plantis dicotyledoneis herbaceis.*

197. **Phyllosticta Ranunculorum** Sacc. et Speg. Mich. I. p. 150. — Maculis vagis, fuligineis; peritheciis hemisphærico-lenticularibus, prominulis, pertusis; sporulis ovoideis, minutis, 5-6 ≃ 3-3½, hyalinis. 197

Hab. in foliis Ranunculi repentis, in isdem maculis, quibus primitus insederat *Didymaria Ungeri* Corda, Conegliano in Ital. bor. (Spegazzini).

198. **Phyllosticta Ranunculi** (Fuck.) Sacc. *Ascochyta Ranunculi* Fuck. Symb. myc. pag. 38. — Peritheciis gregariis, in macula exarida, minutis, conicis, aterrimis; sporulis minutissimis, globosis. 198

Hab. in foliis vivis Ranunculi acris, Œstrich in Germania.

199. **Phyllosticta Thalictri** West. Bull. Ac. Belg. II. Ser. XII. vol. n. 7. — Maculis epiphyllis, angulosis, irregularibus, internerviis, initio fuscis, dein cinerescentibus, saturatius marginatis; peritheciis sparsis, atris, pertusis; sporulis ovoideis, hyalinis, 1-2-guttulatis, 10 ≃ 5. 199

Hab. in foliis Thalictri flavi, Namur in Belgio (Bellynck).

200. **Phyllosticta Pæoniæ** Sacc. et Speg. Mich. I. pag. 160. — Maculis obsoletis; peritheciis sparsis, punctiformibus, globulosis, prominulis, 200 μ. diam., pertusis, laxiuscule cellulosis; sporulis ovoideis, 10 ≃ 5, quandoque obsolete 2-guttulatis, dilute olivaceis. 200

Hab. in foliis Pæoniæ corallinæ, Conegliano in Ital bor.

201. **Phyllosticta helleborella** Sacc. Fungi Ven. Ser. V. 301. Mich. I. pag. 143. — Maculis arescendo candidis, nitidis, variis, sæpe angulosis, atromarginatis, plerumque epiphyllis; peritheciis lenticularibus latiuscule hiantibus, punctiformibus; sporulis oblongo-ovoideis, utrinque acutiusculis, 7 ≃ 3, 2-guttulatis, hyalinis. 201

Hab. in foliis Hellebori viridis, Covolo in Ital. bor., socia *Sphærella Hermione* Sacc., cujus est spermogonium.

202. **Phyllosticta Ajacis** Thüm. Fl. mycol. Litor. n. 329. — Perithe- 202
ciis epiphyllis, sparsis, hemisphærico-emersis, opaco-nigris, mediis in macula valde irregulari, sæpe marginali, arescendo candicante, late fusco-cincta; sporulis oblongis, utrinque rotundatis, non vel uninucleolatis, hyalinis, 4-5 ≃ 2.

Hab. in foliis vivis Delphinii Ajacis, Plezzo in agro Goritiensi.

203. **Phyllosticta Violæ** Desm. 14 Not. pag. 29. — Amphigena; ma- 203
culis albidis, rotundatis, sparsis vel confluentibus; peritheciis innatis, numerosis, microscopicis, fuscis; cirris albis; sporulis minutissimis rectis, subcylindricis, 10 μ. longis.

Hab. in foliis languescentibus Violæ odoratæ, in Gallia, Britannia, Italia, Belgio — f. **Violæ tricoloris** Sacc. Mich. I. p. 143. Maculis subcircularibus oblongisve, arescendo candidis, rufo-marginatis; peritheciis punctiformibus, lentiformibus, 100 μ. diam., laxiuscule cellulosis, pertusis; sporulis oblongis v. subcylindraceis, 6 ≃ $2^1/_2$, sæpe curvulis, 2-guttulatis, hyalinis. — In foliis Violæ tricoloris, Selva in Ital. bor.

204. **Phyllosticta Helianthemi** Roum. Rev. IV. 217. — Peritheciis 204
punctiformibus, nigris; maculis subcircularibus, albidis, minutis, vinoso-marginatis; sporulis perexiguis, oblongis, hyalinis, 3,5 ≃ 1.

Hab. in foliis Helianthemi vulgaris, Dreux in Gallia (Gallet).

205. **Phyllosticta Cheiranthorum** Desm. 17 Not. pag. 25. — Maculis 205
sparsis, irregularibus, albidis v. griseo-viridibus; peritheciis epigenis, globosis, prominulis, pallidis, dein fusco-nigricantibus, pertusis; sporulis rectis, subcylindricis, utrinque obtusiusculis, 3-4-guttulatis, 18-20 μ. long., 2-3-pseudo-septatis.

Hab. in foliis languidis Cheiranthorum, in Gallia. — Ob sporulas longas et pseudo-septatas vix *Phyllostictæ* species; an potius *Cercospora* male observata?

206. **Phyllosticta Napi** Sacc. Mich. I. p. 532. — Maculis vagis, are- 206
scendo expallentibus, immarginatis; peritheciis gregariis, epiphyllis, globoso-lenticularibus, 90-100 μ. diam., pertusis; sporulis oblongo-cylindraceis, curvulis, 4-6 ≃ $1^1/_4$-$1^3/_4$, minute 2-guttulatis, hyalinis.

Hab. in foliis Brassicæ Napi, in Gallia.

207. **Phyllosticta Brassicæ** (Curr.) West. in Bull. Acad. Brux. 1851, 207
p. 397, Kickx Crypt. Flandr. I. p. 413. *Depazea Brassicæ* Curr. Simpl. Sphær. n. 392. — Peritheciis epiphyllis, numerosis, minu-

tis, subplanis, nigris, sparsis; maculis pallide virescentibus, dein albidis; sporulis ovoideis, 2-3-guttulatis; cirris roseis.

Hab. in foliis languidis Brassicæ Napi et oleraceæ, in Belgio, Gallia et Lusitania. — Sec. Curr. sporulæ 5 μ. longæ; maculæ initio centro fuscæ virescenti-marginatæ.

208. **Phyllosticta Erysimi** West. Bull. Soc. bot. Belg. II. 245. — Maculis expallentibus, zona crassiuscula, fusca limitatis; peritheciis numerosis, conspicuis, innatis, atris, poro pertusis, ad centrum maculæ sitis; sporulis ovoideis, hyalinis, biguttatis, 10 μ. longis. 208

Hab. in foliis Erysimi Alliariæ, in Belgio et Britannia.

209. **Phyllosticta anceps** Sacc. Mich. I. p. 532. — Maculis amphigenis, subcircularibus, minutis, initio atroviridibus, dein albolutescentibus, fusco-marginatis; peritheciis globoso-lenticularibus, subvelatis, 80-90 μ. diam., pertusis; sporulis botuliformibus, 4-5 ≃ 1-1¾, minute 2-guttulatis, hyalinis. 209

Hab. in foliis Nasturtii ancipitis et amphibii, in Gallia. 210

210. **Phyllosticta Capparidis** Sacc. et Speg. Mich. I. p. 139. — Maculis amphigenis, variis, arescendo dealbatis, margine elevato ochraceo cinctis; peritheciis sparsis, lenticularibus, 100 μ. diam., pertusis, minute parenchymaticis, fuligineis; sporulis oblongo-ovoideis, inæqualibus, 8-12 ≃ 3-4½, hyalinis.

Hab. in foliis Capparidis rupestris, Conegliano in Italia boreali.

211. **Phyllosticta Epimedii** Sacc. Mich. I. p. 149. — Maculis majusculis irregularibus, ochraceis, rufo-cinctis; peritheciis sparsis, punctiformibus, pertusis; sporulis oblongo-ellipsoideis, 6 ≃ 1½-2, 2-guttulatis, hyalinis. 211

Hab. in foliis Epimedii alpini, in silva Montello in Italia boreali.

212. **Phyllosticta Tropæoli** Sacc. et Speg. Mich. I. p. 152. — Maculis obsoletis; peritheciis gregariis, punctiformibus, epidermide prominula velatis, globoso-lenticularibus, 200 μ. diam., pertusis; contextu laxiuscule celluloso, late fuligineo; sporulis ovoideo-oblongis, 6-10 ≃ 3-4, subinæqualibus, nubilose hyalinis. 212

Hab. in foliis Tropæoli majoris, Conegliano in Ital. bor., in Lusitania et Austria.

213. **Phyllosticta Oxalidis** Sacc. Mich. I. p. 142. — Maculis variis, arescendo candicantibus, fuligineo-marginatis; peritheciis sparsis, paucis, punctiformibus, globoso-lenticularibus, pertusis, laxe cellulosis; sporulis e globoso ovoideis, 4 ≃ 3, hyalinis. 213

Hab. in foliis Oxalidis Acetosellæ, Conegliano in Italia boreali. — Forte spermogonium *Sphærellæ Selenes* Sacc.

214. **Phyllosticta destructiva** Desm. Ann. S. N. 1847, pag. 29. — Maculis subcircularibus, subochraceis, fusco-marginatis; peritheciis epiphyllis concentricis, lutescentibus v. olivaceis, dein atris; sporulis ovoideis v. oblongis, subhyalinis, 2-guttatis; cirro carneo. 214

Hab. in foliis Malvæ, Althææ, Lycii, Evonymi, in Gallia, Belgio, Austria, Italia.

215. **Phyllosticta althæina** Sacc. Mich. I. p. 143. — Maculis sinuosis, arescendo expallentibus, anguste fusco-marginatis; peritheciis sparsis, punctiformibus, lenticularibus, 90 μ. diam., pertusis, laxiuscule ochraceo-cellulosis; sporulis oblongo-ovoideis, 6–7 ≃ 3–4, rarius curvulis, 2-guttulatis, hyalinis. 215

Hab. in foliis Althææ roseæ, in Italia boreali et Gallia. — Legi quoque in ejusdem caule, ubi maculas albidas similes efficit.

216. **Phyllosticta Tormentillæ** Sacc. Mich. I. p. 159. — Maculis pallide ochraceis, irregularibus, margine subconcolori; peritheciis punctiformibus, lenticularibus, sparsis; sporulis breve ellipsoideis minutissimis, 3 ≃ 2½, e hyalino fuscidulis. 216

Hab. in foliis Tormentillæ erectæ, in silva Montello in Italia boreali. — A *Phyll. potentillica* Sacc., *Phyll. fragaricola* Desm. etc. tute diversa.

217. **Phyllosticta potentillica** Sacc. Mich. I. p. 139. — Maculis subcircularibus angulosisve, arescendo dealbatis, anguste fusco-marginatis; peritheciis remotis, punctiformibus, pertusis; sporulis cylindraceo-botuliformibus, 5 ≃ ¾, curvulis, hyalinis. 217

Hab. in pag. sup. foliorum Potentillæ reptantis, Selva in Italia boreali. — Ab *Ph. fragaricola* Desm. et Rob. sporulis curvulis et angustioribus differt.

218. **Phyllosticta ? Argentinæ** Desm. Ann. S. N. 1847, pag. 30. Kickx Crypt. I. 415. — Peritheciis sparsis, exiguis, nitentibus; maculis rubescentibus, indeterminatis, denique totum folium fere invadentibus; sporulis..... non observatis. 218

Hab. in foliis Potentillæ anserinæ, in Gallia, Belgio et Sibiria.

219. **Phyllosticta fragaricola** Desm. et Rob. p. p. (ut videtur) Plant. Crypt. III. n. 686. Mich. I. pag. 140. — Maculis vagis, arescendo dealbatis, sanguineo-marginatis; peritheciis punctiformibus, remote sparsis; sporulis oblongo-ovoideis, 5 ≃ 1½–2, rectis, eguttulatis, hyalinis. 219

Hab. in pag. sup. foliorum Fragariæ chiloensis et Fr. vescæ, in Gallia, Italia, Germania et Austria.

220. **Phyllosticta Arunci** Sacc. Fungi Ven. Ser. V. 300. Mich. I. pag. 143. — Maculis arescendo dealbatis, amphigenis, circulari-angulosis, sæpius fusco-cinctis; peritheciis lenticularibus, punctiformibus, late pertusis; sporulis ovoideo-oblongis, $5 \simeq {}^3/_4$, hyalinis. 220

Hab. in foliis Spirææ Arunci, Selva in Italia boreali, socia *Sphærella Dejanira* Sacc., cujus est spermogonium.

221. **Phyllosticta Filipendulæ** Sacc. Mich. I. p. 145. — Maculis epiphyllis, subcircularibus, arescendo dealbatis, atrosanguineo-marginatis; peritheciis sparsis, punctiformibus, 80–90 μ. diam., lenticularibus, pertusis, contextu minute parenchymatico; sporulis cylindraceo-oblongis, $4 \simeq 2$, 2-nucleatis, hyalinis. 221

Hab. in foliis Spirææ Filipendulæ, Conegliano in Italia boreali.

222. **Phyllosticta filipendulina** Sacc. et Speg. Mich. I. p. 150. 276. — Maculis arescendo fuligineis, subcircularibus; peritheciis gregariis, globoso-lenticularibus, 200–250 μ. diam., solidiusculis, latiuscule pertusis; sporulis oblongo-ellipsoideis, $5\text{–}6 \simeq 2\text{–}2^1/_2$, rectis curvulisque, nubilose hyalinis. 222

Hab. in foliis Spirææ Filipendulæ, Susigana in Italia boreali. — Var. **Ulmariæ** Sacc. In foliis Spirææ Ulmariæ, Rouen in Gallia (Letendre).

223. **Phyllosticta Ulmariæ** Thüm. Pilzfl. Sibir. n. 806. — Peritheciis epiphyllis, sparsis vel solitariis, mediis, hemisphæricis, postremo liberis exsertisve, atris in macula minima, irregulari, arescendo candida, latissime sordide fusco cincta; sporulis cylindricis, numerosissimis, enucleatis, utrinque truncato-rotundatis, hyalinis, $3{,}5\text{–}5 \simeq 2\text{–}2{,}5$. 223

Hab. in foliis vivis Spirææ Ulmariæ, in pratis pr. Ssamodourowka in Sibiria.

224. **Phyllosticta phaseolina** Sacc. Mich. I. p. 149. — Maculis amplis, vagis, arescendo ochraceis; peritheciis sparsis, lenticularibus, 70 μ. diam., pertusis; sporulis ovoideo-oblongis, $6 \simeq 2^1/_2$, rectis, rarius inæquilateralibus, hyalinis. 224

Hab. in foliis Phaseoli vulgaris, Selva in Italia boreali, et Ph. diversifolii in Amer. bor.

225. **Phyllosticta Phaseolorum** Sacc. et Sp. Mich. I. p. 160. — Maculis versiformibus, amplis, arescendo ochraceis; peritheciis punctiformibus, lenticularibus, 100 μ. diam., pertusis, fuligineis; sporu- 225

lis ovoideo-oblongis, rectis curvulisve, 5-6 ≃ 3-3½, chlorino-olivaceis.

Hab. in foliis Phaseoli vulgaris, Costa in Italia bor. — An status alter v. provectus *Ph. phaseolinæ* Sacc.?

226. **Phyllosticta orobina** Sacc. Mich. I. p. 149. — Maculis sinuosis, variis, dilute ochraceis, brunneo-cinctis; peritheciis punctiformibus, pertusis; sporulis ovoideis, 3 ≃ 1, 2-guttulatis, hyalinis. 226

Hab. in foliis Orobi verni, in silva Montello in Ital. bor., socia *Ascochyta Orobi.*

227. **Phyllosticta orobella** Sacc. Miscel. mycol. p. 25. — Maculis expallentibus, variis, non marginatis; peritheciis gregariis, punctiformibus, initio tectis, 80-100 μ. diam.; sporulis oblongis, inæquilateris, utrinque rotundatis, biguttulatis, hyalinis, 7-7,5 ≃ 3. 227

Hab. in foliis Orobi verni, Neuchâtel in Helvetia (Morthier). — A *Ph. orobina* Sacc. prorsus diversa.

228. **Phyllosticta Medicaginis** (Fuck.) Sacc. *Ascochyta Medicaginis* Fuck. Symb. myc. p. 388. — Peritheciis immersis, atris, perforatis, apice globulum diaphanum gerentibus, in macula aurantiaca; sporulis minimis, cylindraceis, curvatis, hyalinis. 228

Hab. in foliis adhuc vivis Medicaginis sativæ et falcatæ, in Germania et Italia.

229. **Phyllosticta minussinensis** Thüm. Pilz. fl. Sib. n. 803. — Peritheciis hypo-raro etiam epiphyllis, dense gregariis, punctiformibus, conico-semiimmersis, nitido-atris in macula indistincta, sordide ochracea, non marginata, irregulari, postremo in folii pagina superiore maculam lacteam efficiente; sporulis ovoideis, minutis, numerosis, utrinque rotundatis, enucleatis, hyalinis, 3,5-4,5 ≃ 1,5-2. 229

Hab. ad folia viva et languida Lathyri pisiformis, in silvis pr. Patroschilowo in Sibiria.

230. **Phyllosticta lathyrina** Sacc. et Wint. Hedw. 1883, n. 1, p. 1. — Maculis amphigenis, difformibus, ochraceo-pallidis, ferrugineo-marginatis; peritheciis innato-prominulis, tenui-membranaceis, 120-140 μ. diam., pertusis, pallide fuligineis; sporulis oblongo-ellipsoideis, utrinque rotundatis, 5-7 ≃ 2-3,5, continuis, hyalinis, eguttulatis. 230

Hab. ad folia viva Lathyri silvestris, in consortio *Septoriæ fulvescentis* Sacc., in fruticetis prope Zürich in Helvetia.

231. **Phyllosticta Fabæ** West. Bull. Soc. Belg. Ser. II. t. XII. n. 7. — Maculis fusco-fuligineis, centro dein expallentibus, usque 2 cent. longis, subrotundis v. elongatis, zona sanguinea cinctis; peritheciis 231

sat copiosis, brunneis, epiphyllis, poro pertusis; sporulis ovato-oblongis, hyalinis, 2-guttatis, 10 ≃ 5.

Hab. in foliis Fabæ vulgaris, prope Namur in Belgio (Barbier).

232. **Phyllosticta Viciæ** (Lib.) Cooke Handb. n. 1345, *Ascochyta Viciæ* Lib. Exs. n. 356, *Phyll. Ervi* West.? — Maculis subcircularibus, pallidis, purpureo-marginatis; peritheciis epiphyllis, minutis, aggregatis, atris, pertusis; sporulis ellipsoideis, 2-guttulatis, hyalinis. 232

Hab. in foliis Viciæ sepium, in Belgio, Gallia et Britannia.

233. **Phyllosticta Pisi** West. Bull. Ac. Belg. Ser. II. t. XII. n. 7. — Maculis subcircularibus v. oblongis, fusco-ochraceis, centro dein expallentibus, atro-marginatis; peritheciis in centro sitis paucis, poro pertusis; sporulis ovoideis, hyalinis, 2-guttulatis. 233

Hab. in pag. inferiore foliorum Pisi sativi, in Belgio.

234. **Phyllosticta Astragali** Peck Bot. Gaz. Oct. 1881, p. 275. — Maculis obsoletis; peritheciis numerosis, sæpius amphigenis, 180-230 μ. diam., epidermide fissa subvelatis, poro circulari pertusis; sporulis oblongis v. oblongo-fusoideis, hyalinis, 13-16 ≃ 3. 234

Hab. in foliis vivis vel emortuis Astragali, in Canada (Maconn).

235. **Phyllosticta Saponariæ** (Fuck.?) Sacc. Mich. I. p. 154. *Ascochyta Saponariæ* Fuck. Symb. 388? — Maculis nullis v. obsoletis; peritheciis epiphyllis, hinc inde maculiformiter densissime aggregatis, punctiformibus, globuloso-prominulis, 80 μ. diam., pertusis, aterrimis; sporulis tenuissimis, cylindraceis, rectiusculis, 4 ≃ 1/2, hyalinis. 235

Hab. in foliis Saponariæ officinalis, socia *Septoria,* Selva in Italia bor. et in Germania.

236. **Phyllosticta nebulosa** Sacc. Mich. II. p. 276. — Maculis obsoletis, expallentibus; peritheciis hinc inde in cohortes dense aggregatis, punctiformibus, innato-erumpentibus, 80 μ. diam.; sporulis oblongo-ovoideis, 6-7 ≃ 1 1/4-2, hyalinis. 236

Hab. in foliis languidis vel emortuis Silenes pendulæ, in hortis Padova in Italia bor.

237. **Phyllosticta Dianthi** West. Exs. n. 293, Kickx Fl. cr. Fl. I. 411. — Maculis albidis, sæpe confluentibus; peritheciis epiphyllis, perexiguis, numerosis, fuscis, in centro maculæ sitis; sporulis ellipsoideis, 3-guttulatis; cirris albis. 237

Hab. in foliis languidis Dianthi barbati, in hortis Belgii.

238. **Phyllosticta Cirsii** Desm. Ann. S. N. 1847, p. 31, Kickx Flandr. I. 414. — Maculis epiphyllis, variis, subcircularibus, arescendo cinerescentibus, fusco-cinctis; peritheciis innatis, sparsis, nigris; sporulis oblongo-ovoideis, 5-7 ≃ $2^1/_2$-3, 2-guttulatis, hyalinis. 238

Hab. in pag. sup. foliorum Cirsii lanceolati et arvensis, in Italia bor., Gallia, Belgio et Britannia.

239. **Phyllosticta profusa** Sacc. Mich. I. p. 260. — Maculis plerumque epiphyllis, arescendo obsolete candicantibus, confluentibus, demumque totam fere paginam occupantibus; peritheciis densiuscule et æqualiter gregariis, punctiformibus, globoso-lenticularibus, 100 μ. diam., pertusis; sporulis oblongis, 4-5 ≃ 2, utrinque obtuse rotundatis, obsolete 2-guttulatis, hyalinis. 239

Hab. in foliis emortuis Cirsii arachnoidei, in horto Patavino Italiæ bor. — A *Phyll. Cirsii* Desm. statim dignoscenda.

240. **Phyllosticta Sonchi** Sacc. Mich. I. p. 141. — Maculis arescendo dealbatis, non marginatis, variis; peritheciis paucis, punctiformibus, lenticularibus, pertusis, 100 μ. diam.; sporulis oblongo-ovoideis, 7-$7^1/_4$ ≃ $3^1/_2$, rectis curvulisve, 2-guttulatis, hyalinis. 240

Hab. in foliis Sonchi oleracei, Conegliano in Italia bor.

241. **Phyllosticta Leucanthemi** Speg. Nov. Add. n. 153, Mich. II. p. 277. — Maculis albo-griseis, circularibus, centro perithecia globosa, prominula, minuta, 120-130 μ. d., membranacea, contextu laxe parenchymatico, fuligineo, gerentibus; sporulis cylindraceo-ellipticis vel ovoideis, 4-5 ≃ $1^1/_2$, granuloso-farctis, hyalinis. 241

Hab. in foliis Chrysanthemi Leucanthemi, in pratis prope Ampezzo in Italia bor.

242. **Phyllosticta Lappæ** Sacc. Mich. I. p. 151. — Maculis subcircularibus sinuosisque, arescendo griseo-brunneis, saturatius marginatis; peritheciis remotiusculis, punctiformibus, lenticularibus, 70 μ. diam., contextu lutescenti; sporulis ovoideo-oblongis vel subreniformibus, 6 ≃ 3, hyalinis. 242

Hab. in foliis Lappæ minoris, Selva in Italia bor.

243. **Phyllosticta Iacobæa** Sacc. Mich. I. p. 149. — Maculis vagis, obtuse angulatis, arescendo ochraceis; peritheciis punctiformibus, remotis; sporulis ovoideis vel breviter oblongis, 5 ≃ 2, eguttulatis, hyalinis. 243

Hab. in foliis Senecionis Iacobææ, in silva Montello in Italia bor.

244. **Phyllosticta Hualtatæ** Speg. F. Argent. Pug. IV. n. 271. — Maculis suborbicularibus, determinatis, 3-15 mill. diam., arescendo 244

albicantibus, amphigenis; peritheciis amphigenis, centralibus, lenticularibus, 90–100 μ. diam., tenuissime membranaceis, contextu parenchymatico, olivaceo-fuligineo, ostiolo latiusculo perforatis; sporulis ellipticis vel elliptico-ovoideis, utrinque obtusiusculis, 8–10 ≃ 3–4, non vel 2-guttulatis, hyalinis.

Hab. in foliis vivis Senecionis Hualtatæ, ad ripas del Rio de la Plata, prope la Recoleta.

245. **Phyllosticta Farfaræ** Sacc. Fungi Ven. Ser. II. 302. Mich. I. p. 143. — Maculis epiphyllis, irregularibus, arescendo albicantibus, zona elevata atropurpurea cinctis; peritheciis punctiformibus, lenticularibus, 80 μ. diam.; sporulis ellipsoideis vel ovoideis, 5–6 ≃ 3, 2-guttulatis, hyalinis. 245

Hab. in foliis Tussilaginis Farfaræ, Covolo in Italia bor., socia *Sphærella Pieride* Sacc., cujus est spermogonium.

246. **Phyllosticta eupatorina** Thüm. Contr. fl. myc. Lusitan. — Peritheciis epiphyllis, minutissimis, semiimmersis, punctiformibus, globosis, nigris, sparsis in macula plus minusve orbiculari, arescendo cinerescenti, late fumoso-purpureo-cincta; sporulis ellipsoideis, utrinque rotundatis, enucleatis, continuis, dilute griseo-hyalinis, 6 ≃ 2,5–3. 246

Hab. in foliis vivis Eupatorii speciei indeterminatæ, Coimbra in Lusitania in horto botanico (Moller).

247. **Phyllosticta Cynaræ** West. Exs. n. 1140, Kickx Flandr. I. 414. — Peritheciis epiphyllis, exiguis, numerosis, fuscis, sparsis; maculis cinereo-fuligineis, subcircularibus, concentrice lineatis; sporulis ovoideis, hyalinis, 10 ≃ 5. 247

Hab. in foliis Cynaræ, in Belgio.

248. **Phyllosticta Aronici** Sacc. Syll. I. 538. — Epiphylla; peritheciis dense gregariis, globosis, sub foliorum epidermide nidulantibus, aterrimis, perforatis; sporulis cylindraceis, continuis, hyalinis, 8 ≃ 2. 248

Hab. socio *Fusicladio Aronici* in foliis nondum emortuis Aronici scorpioidis, in Helvetia et Italia.

249. **Phyllosticta Arnicæ** Fuck. Symb. myc. App. III. p. 36 (sub *Ascochyta*). — Epiphylla, maculam obscuriorem luteo-limitatam formans; peritheciis aggregatis, mox cupulæformibus, carbonaceis, marginalibus adhuc clausis, sporulas cylindraceas, rectas, 6 ≃ 1, includentibus. 249

Hab. in pag. sup. foliorum Arnicæ montanæ, St. Moritz in Helvetia, socia *Septoria Arnicæ* Fuck.

250. **Phyllosticta Laserpitii** Sacc. Mich. I. p. 145. — Maculis epi- 250

phyllis, minutis, griseo-albicantibus; peritheciis sparsis, punctiformibus, 90-100 μ. diam., lenticularibus, pertusis; sporulis ellipsoideo-oblongis, 4-5 ≃ $2^1/_2$-$2^3/_4$, rectis, 2-guttulatis, hyalinis.

Hab. in foliis Laserptii latifolii cum *Passalora depressa*, in montanis Tarvisinis Italiæ bor. (A. de Bérenger).

251. **Phyllosticta Bupleuri** (Fuck.) Sacc., *Depazea Bupleuri* Fuck. Symb. 382, Rev. Myc. V. 11. t. XXXV. f. 8. — Macula exarida, grisea; peritheciis conicis, numerosis, atris, poro pertusis; sporulis ovoideis, copiosis, hyalinis, tunica obscuriore. 251

Hab. in foliis vivis Bupleuri falcati, in Germania prope Œstrich, et Bupleuri gibraltrarici in Algeria.

252. **Phyllosticta Angelicæ** Sacc. Mich. II. p. 620. — Peritheciis maculiformi-aggregatis, lenticularibus, pertusis, 80-90 μ. diam., laxe contextis; sporulis oblongis, minutissimis, 4-5 ≃ 1, hyalinis. 252

Hab. in foliis Angelicæ silvestris, in Gallia et Italia. — Spermogonium *Phyllachoræ Angelicæ* (Fr.) Fuck. — *Sphæria* (Sphæropsis) *Ægopodii* Curr. Simpl. Sphær. p. 332: sporulis minutis, cylindraceis, 5 μ. longis, verisimiliter est varietas in Ægopodii Podagrariæ foliis vigens et ad *Phyllachoram Podagrariæ* pertinens.

253. **Phyllosticta Scrophulariæ** Sacc. Mich. I. pag. 159. — Maculis vagis, ochraceis, margine subconcolori; peritheciis punctiformibus, sparsis; sporulis ellipsoideis, utrinque obtusis, 5 ≃ 3, e hyalino fuscidulis. 253

Hab. in foliis Scrophulariæ nodosæ, Selva in Italia bor. — Var. **Veronicæ speciosæ.** Sporulæ ellipsoideæ, 5-6 ≃ $3^1/_4$, quandoque medio lenissime contractæ, olivaceæ. In ejusdem foliis, Perpignan in Gallia.

254. **Phyllosticta scrophularinea** Sacc. Mich. I. p. 141. — Maculis minutis angulosis, arescendo candicantibus, late rufo-cinctis; peritheciis punctiformibus, lenticularibus, 90-100 μ. diam., sparsis; sporulis oblongis, rectis curvulisve, minutissimis, 3-4 ≃ 1, utrinque rotundatis, hyalinis. 254

Hab. in pag. sup. foliorum Scrophulariæ nodosæ, Selva in Italia bor. — A *Phyll. Scrophulariæ* Sacc. et *Phyll. Ehrhartii* Sacc. probe distincta.

255. **Phyllosticta Ehrhartii** Sacc. Mich. I. p. 140. — Maculis arescendo dealbatis, sinuosis, sanguineo-marginatis; peritheciis epiphyllis, punctiformibus, remote sparsis, lenticularibus; sporulis oblongo-ovoideis, 4-5 ≃ 3, hyalinis. 255

Hab. in foliis Scrophulariæ Ehrhartii, Selva in Italia boreali.

256. **Phyllosticta Digitalis** Bell. in West. Exs. n. 1053. — Maculis 256
subcircularibus vel irregularibus, sparsis, confluentibusque, cinerescentibus, vinoso-marginatis; peritheciis parcis, semiimmersis, poro pertusis; sporulis ovoideis, hyalinis, 2-guttatis, 7 ≃ 2,5.

Hab. in pag. sup. foliorum Digitalis luteæ, in Belgio.

257. **Phyllosticta Linariæ** Sacc. Mich. II. p. 588. — Maculis subcir- 257
cularibus, arescendo dealbatis, anguste rufo-marginatis; peritheciis sparsis, punctiformibus, lenticularibus, pertusis, vix 100 μ. diam.; sporulis ovoideo-oblongis, 4 ≃ 2½, hyalinis.

Hab. in foliis Linariæ Elatines, Saintes in Gallia (Brunaud).

258. **Phyllosticta Verbenæ** Sacc. Mich. I. pag. 530. — Maculis epi- 258
phyllis, variis, arescendo cinerescentibus v. albicantibus; peritheciis punctiformibus, lenticularibus, 80 μ. diam., pertusis; sporulis oblongis, curvulis, 5 ≃ 1-1¼, hyalinis, coacervatis viridulis.

Hab. in foliis Verbenæ officinalis, Alençon in Gallia (Gillet).

259. **Phyllosticta Verbasci** Sacc. Mich. I. p. 531. — Maculis parvis, 259
arescendo expallentibus, epiphyllis; peritheciis punctiformibus, sparsis; sporulis oblongis, 6 ≃ 3, utrinque obtusis, medio parum constrictis, continuis, hyalinis.

Hab. in foliis Verbasci, Alençon in Gallia (Gillet).

260. **Phyllosticta Martyniæ** Thüm. Contr. Fl. myc. Lusit. — Peri- 260
ritheciis epiphyllis, dense gregariis, parvulis, conoideo-emersis, olivaceis, primo longe diu tectis, dein prominulis in macula plus minusve orbiculari, exarida, concentrice zonata, e griseo subrosea, anguste fusco-marginata; sporulis ellipticis, continuis, utrinque rotundato-obtusatis, enucleatis, achrois, 5-6 ≃ 3.

Hab. ad folia viva Martyniæ luteæ, Coimbra in Lusitania in horto botanico (Moller).

261. **Phyllosticta Petuniæ** Speg. Nov. Add. n. 155, Mich. II. p. 278. 261
— Maculis fuligineis, circularibus, dein angulosis, amorphis, concentrice saturatius et rugulose zonatis; peritheciis centro macularum insidentibus, tenui-membranaceis, contextu laxe parenchymatico, fuligineo; sporulis ellipticis vel ovoideis, continuis, hyalinis, 3-5 ≃ 1½-2.

Hab. in foliis languidis Petuniæ cujusdam speciei cultæ in hortis, Belluno in Italia boreali.

262. **Phyllosticta Physaleos** Sacc. Mich. I. p. 150. — Maculis subcir- 262
cularibus, arescendo ochraceis, brunneo-marginatis; peritheciis punctiformibus, remotiusculis, lenticularibus, 80 μ. d., pertusis, contextu subferrugineo, minute cellulosо; sporulis oblongo-ovoideis, 7-8 ≃ $3^1/_2$-4, crassiuscule 2-guttulatis, hyalinis.

Hab. in foliis Physaleos Alkekengi, in silva Montello in Italia bor. — Var. **calycicola** Speg. F. Arg. Pug. IV. n. 272. maculis determinatis, majusculis, irregularibus, candidis; peritheciis lenticularibus, 150-180 μ. d., atris, ostiolo impresso pertusis, contextu parenchymatico, olivaceo; sporulis ellipticis, utrinque attenuato-acutatis, 8-10 ≃ 3, et grosse 2-guttulatis, hyalinis. — In calycibus fructiferis Physalidis viscosæ, in sepibus, Boca del Riachuelo in Argentina.

263. **Phyllosticta Julia** Speg. F. Arg. Pug. II. 120. — Maculis can- 263
didis, orbicularibus, magnitudine variabilissimis; peritheciis minutissimis, 80-90 μ. d., atris globoso-depressis, membranaceis, contextu densiuscule parenchymatico-olivaceis, fuligineis; sporulis ellipticis, utrinque obtusis, sæpe inæquilateralibus, simplicibus, hyalinis, 6-9 ≃ 3-4.

Hab. ad folia languida Daturæ discoloris, in horto publico del Paseo de Julio in Argentina.

264. **Phyllosticta Tabaci** Pass. Critt. Tabacco n. 1. — Foliis primo 264
variegatis et paullulum bullatis, deinde areolis exaridis candidis, irregularibus, subconfluentibus, disseminatis; areolis sæpe sterilibus, nonnullis autem medio sordescentibus, ibique perithecia atra punctiformia foventibus et mox laceratis; sporulis ovoideis, rectis, hyalinis, 7 ≃ 3.

Hab. ad folia Nicotianæ Tabaci, pr. Parma in Ital. bor.

265. **Phyllosticta capsulicola** Sacc. et Speg. Mich. I. p. 152. — Ma- 265
culis obsoletis; peritheciis gregariis, punctiformibus, lenticularibus, 70 ≃ 100, pertusis; contextu parenchymatico dilute fuligineo; sporulis ovoideis, curvulis, 7-11 ≃ 3-$4^1/_2$, 1-2-guttulatis, hyalinis.

Hab. in capsulis Nicotianæ Tabaci, Conegliano in Ital. bor.

266. **Phyllosticta Aratæ** Speg. Fung. Arg. Pug. II. n. 117. — Ma- 266
culis griseo-fuscescentibus vel griseo-subochraceis, centro intensius coloratis, orbicularibus, concentrice rugulosis, $^1/_2$-2 cent. d.; peritheciis lenticulari-globosis, 90-100 μ., atris, ostiolo parvulo perforatis, submembranaceis, contextu minute parenchymatico, fuligineo-olivaceo; sporulis elliptico-cylindraceis, utrinque obtusis, simplicibus, hyalinis, 7-10 ≃ 3-4, rectis vel curvulis.

Hab. in foliis vivis Solani glauci, in pratis humidis cerca de la Boca del Riachuelo in Argentina (Schnyder).

267. **Phyllosticta hortorum** Speg. Nov. Add. n. 154, Mich. II. p. 277. — Maculis circularibus indeterminatis, fulvis, centro griseis, amphigenis, denique circumscissis; peritheciis centralibus, minutis, 80–90 μ. diam., lenticulari-globosis, contextu tenui, membranaceo, fusciculo-olivaceo, poro pertusis; sporulis ellipticis vel ovoideis, continuis, utrinque rotundatis, hyalinis, 4-6 ≃ 2–2½. 267

Hab. in foliis vivis Solani Melongenæ, in hortis Belluno in Italia boreali.

268. **Phyllosticta Dulcamaræ** Sacc. Mich. I. p. 160. — Maculis versiformibus, sæpe marginalibus, arescendo brunneis; peritheciis epiphyllis sparsis, lenticularibus, punctiformibus, 80–90 μ. diam., pertusis; sporulis globoso-ellipsoideis, inæqualibus, 5–6 ≃ 3, e hyalino chlorinis. 268

Hab. in foliis Solani Dulcamaræ, Selva in Italia boreali, socia *Septoria*.

269. **Phyllosticta Pseudo-capsici** Roum. Rev. Myc. IV. 152. — Maculis albido-ochraceis, subcirculari-sinuosis, sæpius marginalibus, fulvo-marginatis; peritheciis amphigenis, punctiformi-lenticularibus, atris, pertusis; sporulis ellipsoideis, 8–10 ≃ 4, subhyalinis. 269

Hab. in foliis languidis Solani Pseudo-capsici culti, Saint-Caprais prope Toulouse in Gallia.

270. **Phyllosticta Solani** Ell. et Mart. Amer. Nat. 1882, p. 100. — Maculis pallide fuscis, obscurius marginatis; peritheciis atris, innatis, amphigenis, 90 μ. diam., parte superiori deciduis; sporulis subhyalinis, oblongis, 9 ≃ 2. 270

Hab. in foliis Solani cujusdam, Lexington in America bor. (W. A. Kellermann).

271. **Phyllosticta Teucrii** Sacc. et Speg. Mich. I. p. 144. — Maculis variis, arescendo albidogriseis; peritheciis gregariis, punctiformibus, lenticularibus, late pertusis, contextu distincte parenchymatico, olivascente; sporulis cylindraceis, minutissimis, 4–5 ≃ 1–1¾, quandoque curvulis, hyalinis. 271

Hab. in foliis Teucrii Chamædryos, Conegliano in Italia boreali.

272. **Phyllosticta Lamii** Sacc. Mich. I. p. 142. — Maculis vagis, latiusculis, arescendo dealbatis, zona plus vel minus lata ochracea cinctis; peritheciis remote sparsis, punctiformibus, pertusis, laxiuscule cellularibus, lutescentibus; sporulis oblongis, utrinque obtu- 272

siusculis 1-guttulatisque, 7 ≃ 3, hyalinis; basidiis filiformibus, acuminatis, 5 ≃ 2, suffultis.

Hab. in foliis Lamii Orvalæ et L. albi, Selva in Italia bor., et in Sibiria.

273. **Phyllosticta Glechomæ** Sacc. Mich. I. p. 151. — Maculis variis, sinuosis, arescendo brunneis; peritheciis sparsis, punctiformibus, lenticularibus, pertusis; sporulis oblongis, utrinque rotundatis, 7 ≃ 3-3½, rectis vel curvulis, 2-guttulatis, hyalinis. 273

Hab. in foliis Glechomæ hederaceæ, Selva in Italia bor.

274. **Phyllosticta infuscata** Winter Cont. Myc. Lus. n. 799. — Maculis determinatis, irregularibus, plerumque angulato-rotundatis, fuscidulis, margine obscuriore purpureo-fusco cinctis, demum in centro albidis, usque 6 mill. lat.; peritheciis sparsis, punctiformibus, subglobosis, atris, membranaceis; sporulis oblongis, interdum ovatis, hyalinis, continuis, 3,5-4,5 ≃ 2. 274

Hab. ad folia viva Teucrii Scordii, prope Caldas do Gerez in Lusitania.

275. **Phyllosticta Galeopsidis** Sacc. Mich. I. p. 150. — Maculis arescendo dilute ochraceis, versiformibus, margine concolori; peritheciis minutissimis, lenticularibus, 60 μ. diam., pertusis; sporulis oblongis, sæpe inæquilateralibus, utrinque rotundatis, 4 ≃ 3, 2-guttulatis, hyalinis. 275

Hab. in foliis Galeopsidis versicoloris, Selva in Italia boreali, socia *Sphærella.*

276. **Phyllosticta Ajugæ** Sacc. et Speg. Mich. I. p. 150. — Maculis versiformibus, latiusculis, arescendo dilute ochraceis, fusco-cinctis; peritheciis sparsis, globulosis, prominulis, 90-100 μ. diam., pertusis; contextu laxe parenchymatico fuligineo; sporulis ovato-ellipsoideis, 7-8 ≃ 3, rectis curvulisve, hyalinis, quandoque 2-guttulatis. 276

Hab. in foliis Ajugæ reptantis, Conegliano in Italia bor. (Spegazzini).

277. **Phyllosticta Quamoclit** Thüm. Contr. Fl. myc. Lusitan. — Peritheciis epiphyllis, solitariis, emersis, punctiformibus, submagnis, conico-subglobosis, nigris in macula irregulari, ochraceo-ferruginea, exarida, fusco-griseo-zonata, postremo dilacerata; sporulis late ovoideis, utrinque acutato-rotundatis, enucleatis, dilute griseolis, 12-13 ≃ 8-9. 277

Hab. ad folia viva Quamoclit coccineæ, Choupal prope Coimbra in Lusitania (Moller).

278. **Phyllosticta Pharbitis** Sacc. Mich. I. pag. 144. — Maculis are- 278

scendo expallentibus fusco-cinctis, variis; peritheciis parcis, amphigenis, lentiformibus, 100 μ. diam., pertusis; sporulis oblongis, interdum curvulis, 6 ≃ 2-3, 2-guttulatis, hyalinis.

Hab. in foliis Pharbitis hispidæ, Selva in Italia bor. et Rouen in Gallia.

279. **Phyllosticta nervisequa** Sacc. Mich. I. p. 160. — Maculis nullis vel obsoletis; peritheciis secus foliorum nervos digestis, innato-prominulis, applanatis, oblongis, 120-130 μ. long., 80 lat., minute pertusis, contextu parenchymatico densiusculo fuligineo; sporulis oblongo-cylindraceis, 8-10 ≃ 3½, leniter curvulis rectisve, utrinque obtusiusculis, eguttulatis, e hyalino dilutissime olivaceis. 279

Hab. in foliis Calystegiæ sepium, utraque pagina conspicua, Conegliano in Italia bor.

280. **Phyllosticta Calystegiæ** Sacc. Mich. I. p. 141. — Maculis subcircularibus, arescendo cinerescentibus albisve, brunneo-marginatis; peritheciis sparsis, punctiformibus, lenticularibus, 80 μ. diam., pertusis, minute parenchymaticis; sporulis oblongo-ovoideis, 4-5 ≃ 2½-3, hyalinis. 280

Hab. in pag. sup. foliorum Calystegiæ sepium cum *Septoria Convolvuli*, Selva in Italia bor.

281. **Phyllosticta bataticola** Ell. et Mart. Amer. Nat. 1882, p. 1002. — Peritheciis paucis, minutis, nigris; maculis parvis, rotundis albis, purpureo-marginatis; sporulis oblongo-ellipsoideis, 5 ≃ 2. 281

Hab. in foliis Batatæ edulis, Newfield New Yersey in Amer. bor. — Multo minor quam *Ph. Batatæ* Cooke.

282. **Phyllosticta Batatæ** Thüm. M. Un. n. 598 (sub *Depazea*). — Maculas dealbatas vel fuscescentes, plus minusve orbiculatas, aridas, dilabentes, dilute fusco-marginatas, 2,6 mill. d., formans; peritheciis epiphyllis vel etiam amphigenis, sparsis, prominentibus, punctiformibus, plus minusve globosis, atris; sporulis minutis, breviter cylindraceis, utrinque obtusis, binucleatis, hyalinis, 6-8 ≃ 3. 282

Hab. ad folia viva Batatæ edulis, in Carolina infer. Aiken. — A *Depazea perusta* Berk. et Br., quæ *Læstadia*, etiam in Batata eduli parasitante, diversissima.

283. **Phyllosticta Campanulæ** Sacc. et Speg. Mich. I. p. 151. — Maculis variis, fulvo-ochraceis, fusco-cinctis; peritheciis epiphyllis, sparsis, lenticularibus, 150 μ. diam., pertusis, laxe cellulosis; sporulis ovoideis, 8 ≃ 4½-5, subinæqualibus, dilute olivaceis. 283

Hab. in foliis Campanulæ Trachelii, Vittorio in Italia bor.; et Camp. glomeratæ, in Sibiria.

284. **Phyllosticta Vincetoxici** Sacc. Mich. I. p. 156. — Maculis epiphyllis, variis, sinuosis, arescendo dealbatis, margine tenui rufescente; peritheciis sparsis, punctiformibus, lenticularibus; sporulis ellipsoideis, 5-6 ≃ 3-3½, quandoque inæquilateralibus, olivaceis. 284

Hab. in foliis Cynanchi Vincetoxici, Vittorio in Italia boreali. — A *Phyll. Asclepiadearum* West. sporulis coloratis differt.

285. **Phyllosticta Asclepiadearum** West. Bull. Brux. 1851, pag. 398, Mich. I. pag. 140. — Maculis variis, arescendo griseis albidisque, fusco-cinctis; peritheciis punctiformibus, lenticularibus, 100 μ. d.; sporulis ellipsoideo-oblongis vel subcylindraceis, 4½-6 ≃ 2½-3, hyalinis. 285

Hab. in foliis Cynanchi Vincetoxici, Cadore et in silva Montello in Italia bor.

286. **Phyllosticta atro-maculans** Speg. Nov. Add. n. 149, Mich. II. pag. 276. — Maculis pallidis, melleis, totum folium occupantibus et arescentibus; peritheciis hinc inde sparsis, circulos stromaticos parvulos, atros, 150-200 μ. diam., efficientibus, globoso-lenticularibus, ostiolis pertusis, contextu parenchymatico-membranaceo-subindistincto, fuligineo; sporulis elliptico-fusoideis, utrinque acutiuscule rotundatis, 1-pluri-guttulatis, hyalinis, 5-9 ≃ 2½-3. 286

Hab. ad folia arida Cynanchi Vincetoxici, in montanis Tavarsan prope Belluno in Italia bor.

287. **Phyllosticta Cucurbitacearum** Sacc. Mich. I. p. 145. — Maculis epiphyllis vel amphigenis, variis, arescendo sordide albicantibus; peritheciis punctiformibus, 80-100 μ. diam., lenticularibus, pertusis; sporulis oblongis, 5-6 ≃ 2½, utrinque obtusiusculis, curvulis, 2-guttulatis, hyalinis. 287

Hab. in foliis Cucurbitæ Peponis, Vittorio in Italia bor. et Rouen in Gallia.

288. **Phyllosticta auctumnalis** Speg. F. Arg. Pug. II. n. 33. — Maculis griseo-arescentibus, orbiculari-difformibus, quandoque zona ochracea vel purpurascenti-ochracea cinctis, ½-1 cent. diam.: peritheciis minutissimis, 80-90, atris, tenuissime membranaceis, contextu laxe parenchymatico, olivaceo, ostiolo latiusculo impresso donatis; sporulis ellipticis vel ovoideis, utrinque obtuse rotundatis, continuis vel rarius 1-septatis, quandoque inæquilateralibus, 8-10 ≃ 2-3, hyalinis. 288

Hab. ad folia languida Trianospermæ ficifoliæ, en la Boca del Riachuelo in Argentina.

289. **Phyllosticta Portulacæ** Sacc. et Speg. Mich. I. p. 145. — Ma- 289

culis subcircularibus, arescendo dealbatis, margine elevato fuscescente; peritheciis lenticularibus, punctiformibus, 50-60 μ. diam., pertusis; sporulis ovoideis, 4-5 ≃ 3, 2-guttulatis, hyalinis.

Hab. in foliis Portulacæ oleraceæ, Selva in Italia bor.

290. **Phyllosticta Plantaginis** Sacc. Mich. I. p. 140. — Maculis subcircularibus, arescendo dealbatis; peritheciis sparsis, punctiformibus, e globoso lenticularibus, 60-80 μ. d., pertusis; sporulis oblongo-ovoideis ovoideisve, 5 ≃ 2, hyalinis. 290

Hab. in foliis Plantaginis majoribus, Selva in Italia bor. — Huc *Ascochyta Plantaginis* Sacc. Mycol. Ven. pag. 194 sed homonyma species Cesatiana verisimiliter ad *Septoriam* spectat.

291. **Phyllosticta Mercurialis** Desm. 17 Not. pag. 25. — Maculis albis, exaridis, minutis, indeterminatis, interdum confluentibus; peritheciis amphigenis, innatis, pallide succineis, dein fusco-nigricantibus, poro apertis; sporulis hyalinis, rectis, oblongis, utrinque obtusis, 1-septatis, vel 3-4 guttulis repletis, 40-50 μ. longis. 291

Hab. in foliis languescentibus Mercurialis annuæ, in Gallia et Belgio. — « Ob sporulas magnas et subinde 1-septatas a genere abhorret ».

292. **Phyllosticta Urticæ** Sacc. Mich. I. p. 141. — Maculis subcircularibus sinuosisque, arescendo dealbatis; peritheciis sparsis, punctiformibus, lenticularibus, 60 μ. diam., pertusis, contextu densiuscule parenchymatico; sporulis oblongo-ovoideis, 5-6 ≃ 3½, hyalinis. 292

Hab. in foliis Urticæ dioicæ, Selva in Italia bor.

293. **Phyllosticta Humuli** Sacc. et Speg. Mich. I. p. 144. — Maculis variis, arescendo dealbatis; peritheciis punctiformibus, lenticularibus, 80-90 μ. diam., anguste pertusis, tenuiter membranaceis flavo-fuligineis; sporulis oblongis, 6-9 ≃ 4-5, utrinque rotundatis, rectis curvulisve, 1-2-3-guttulatis, hyalinis. 293

Hab. in foliis languidis Humuli Lupuli, Conegliano in Italia boreali.

294. **Phyllosticta Cannabis** (Kirchn?) Speg. Nov. Add. n. 150. *Depazea Cannabis?* Kirchn. in Lotos 1856, pag. 184. — Maculis epiphyllis, subcircularibus, fuscis, dein expallentibus; sporulis hyalinis, continuis, elliptico-cylindraceis, rectis vel curvulis, minutissimis, 1-2-guttulatis, 4-6 ≃ 2-2½. 294

Hab. In foliis vivis vel languidis Cannabis sativæ, Belluno in Ital. boreali, et in Bohemia.

295. **Phyllosticta Gomphrenæ** Sacc. et Speg. Mich. I. p. 151. — Maculis vagis, latis, amphigenis, arescendo lutescentibus, fusco-cinctis; 295

peritheciis sparsis, punctiformibus, lenticularibus, pertusis, contextu laxe parenchymatico fuligineo; sporulis oblongo-ellipsoideis, 7–8 ≃ 3, hyalinis.

Hab. in foliis Gomphrenæ globosæ, Conegliano Plezzo in Italia boreali.

296. **Phyllosticta Celosiæ** Thüm. Contr. Fl. Myc. Lusit. — Peritheciis epiphyllis, subgregariis, lenticularibus, fusco-atris, subparvis in macula plus minusve orbiculata, arescenti et dilacerata, pallide ochracea, zonata, fusco-griseo-cincta; sporulis simplicibus, cylindrico-ellipsoideis, utrinque rotundatis, enucleatis, achrois, 6–8,5 ≃ 2,4–3,2. 296

Hab. ad folia viva Celosiæ cristatæ, Coimbra in Lusitania in horto botanico (Moller).

297. **Phyllosticta Molleriana** Thüm. Cont. Myc. Lusit. n. 378. — Peritheciis epiphyllis, punctiformibus, minutis, dense gregariis, fuligineis, subemersis in macula exarida, sinuosa, ochraceo-grisea, magna, rubro-ferrugineo marginata; sporulis ellipticis, utrinque subrotundatis, non nucleatis, rectis, achrois, 5–6 ≃ 3. 297

Hab. ad folia viva Pyxidii (Amaranthi) melancholici, Coimbra in Lusitania in horto botanico (Moller).

298. **Phyllosticta Betæ** Oudem. Ann. Mycol. Neder. 1875–76, p. 6. — Peritheciis exilissimis, innatis tandem poro apertis, in maculis decoloratis sparsis, nucleo gelatinoso; sporulis minutissimis ovoideis, achromis, non nisi aqua adhibita detegendis. 298

Hab. in foliis Betæ vulgaris cultæ, prope Harderovicum in Hollandia.

299. **Phyllosticta Atriplicis** Desm. Ann. Sc. nat. 1851, pag. 298. — Amphigena; maculis orbicularibus, albicantibus, obscurius marginatis, sparsis v. confluentibus; peritheciis epiphyllis, exiguis, numerosis, globosis, innatis, brunneo-atris, poro pertusis; cirris flavidis; sporulis cylindraceo-ovatis, obtusis, rectis curvulisve, 3–6-guttulatis, interdum subtorulosis, hyalinis. 299

Hab. in foliis Atriplicis et Chenopodii, in Gallia, Germania, Belgio, Britannia. — *Dep. atriplicicola* Fr. S. M. II. p. 532. huc spectare videtur.

300. **Phyllosticta Polygonorum** Sacc. Mich. I. p. 141. — Maculis subcircularibus, arescendo dealbatis, amœne sanguineo-cinctis; peritheciis punctiformibus, remotiusculis; sporulis e globoso ovoideis, 4 ≃ 2–2½, hyalinis. 300

Hab. in foliis Polygoni Persicariæ, Selva in Ital. bor.

301. **Phyllosticta? discors** Sacc. et Speg. Mich. I. p. 154. — Maculis obsoletis; peritheciis densiuscule gregariis, amphigenis, punctiformibus, lenticularibus, atris, 80–120 μ. diam., pertusis, basi sæpius setulam unicam vel paucas aciculares, 80–100 ≃ 3, septulatas, fuligineas gerentibus; contextu parenchymatico minuto; sporulis cylindraceis, 20–25 ≃ 4–4½, utrinque rotundatis, rectis v. curvulis, guttulatis v. nubilosis, hyalinis. 301

Hab. in foliis Rumicis Acetosæ, Conegliano in Ital. bor. (Spegazzini). — An *Vermicularia?*

302. **Phyllosticta Acetosæ** Sacc. Mich. I. p. 151. — Maculis subcircularibus, ferrugineo-fuscis; peritheciis epiphyllis, punctiformibus, lenticularibus, gregariis, pertusis; sporulis oblongis v. breve cylindraceis, utrinque obtusis, 4–5 ≃ 2, 2-guttulatis, hyalinis. 302

Hab. in foliis Rumicis Acetosæ, in Italia boreali.

303. **Phyllosticta Chenopodii** Sacc. Mich. I. p. 150, vix West. — Maculis vagis irregularibus, sparsis v. confluentibus, arescendo ochraceis, subinde fusco-marginatis; peritheciis punctiformibus, lenticularibus, 50 μ. diam., pertusis; sporulis oblongo-ellipsoideis, 5 ≃ 3, hyalinis. 303

Hab. in foliis Chenopodii polyspermi, Ch. viridis et Ch. urbici in Italia. — *Ph. Chenopodii* West. sporulis 15–20 ≃ 7 potius *Septoriam Chenopodii* Desm. spectat.

304. **Phyllosticta Ambrosioidis** Thüm. Contr. Mycol. Lusit. n. 592. — Peritheciis epiphyllis, sparsis vel subsolitariis, conico-globosis, semiimmersis, nigris, punctiformibus in macula plus minusve sinuosa, primo virescenti, postremo exarida, albo-grisea, parvula, fusco-violaceo-marginata; sporulis cylindraceis, utrinque rotundatis, rectis, enucleatis, minimis, hyalinis, 4,5–5 ≃ 1,5. 304

Hab. in foliis vivis Chenopodii ambrosioidis, Choupal pr. Coimbra (Moller).

305. **Phyllosticta Podophylli** (Curtis) Wint. *Ascospora Podophylli* Curt. in Peck. 23 Rep. in the state Mus. — Maculis amphigenis, angulosis irregularibusque, determinatis, usque 12 (et ultra) mill. latis, interdum confluentibus, fuscis; peritheciis amphigenis, gregariis, plerumque secus nervos dispositis, globosis, atris, 100–120 μ. diam.; sporulis fere globosis vel ellipsoideis, hyalinis, guttula oleosa magna præditis, 8–9 ≃ 5–6. 305

Hab. ad folia viva Podophylli peltati, Kentucky, Bethlehem etc. in America boreali.

306. **Phyllosticta Vincæ** Thüm. Contr. Fl. Myc. Lusit. — Peritheciis 306

hypophyllis, gregariis, semiimmersis, minutis, globulosis, nigris in macula magna, irregulari, fusco-grisea, anguste cincta, subtus pallidiore, vix arescente; sporulis minutissimis, ellipsoideis vel globoso-ellipticis, simplicibus, enucleatis, 2,5 ≃ 1,5-2, achrois.

Hab. in foliis vivis Vincæ mediæ, St. Antonio dos Olivaes pr. Coimbra in Lusitania (Moller).

307. **Phyllosticta Pulmonariæ** (Fuck.) Sacc. *Ascochyta Pulmonariæ* Fuck. Symb. p. 386. — Peritheciis in macula fusca, gregariis, minutis, conicis, atro-nitidis; sporulis minutissimis, globosis. 307

Hab. in pag. sup. foliorum Pulmonariæ, in Jura in Helvetia (Morthier).

308. **Phyllosticta primulicola** Desm. 14 Not. pag. 30. — Maculis amphigenis, magnis, albidis, exaridis, sæpe luteolo-cinctis; peritheciis epiphyllis, numerosis, prominulis, globosis, nigris, nitidis; sporulis subglobosis, perexiguis (teste Cooke). 308

Hab. in foliis languescentibus Primulæ veris et elatioris, in Gallia, Belgio, Britannia.

309. **Phyllosticta lutetiana** Sacc. Mich. I. p. 159. — Maculis subcircularibus, arescendo pallide ochraceis, anguste castaneo-cinctis; peritheciis sparsis, punctiformibus, pertusis; sporulis ovoideis, 5 ≃ 4, e hyalino olivaceis. 309

Hab. in foliis Circææ lutetianæ, Selva in Ital. bor.

310. **Phyllosticta hydrophila** Speg. Nov. Add. n. 152, Mich. II. p. 277. — Peritheciis in maculis fuscescentibus, subcircularibus, indeterminatis insidentibus, primo parenchymati immersis, dein prominulis, globoso-lenticularibus, minutis, 150-180 μ. d., contextu fuligineo, parenchymatico, densiusculo; sporulis cylindraceo-fusiformibus, arcuato-curvatis, utrinque acutiusculis, hyalinis, 5-7 ≃ $1^1/_2$-2. 310

Hab. in foliis languidis Nymphææ albæ, in paludosis litoris Veneti.

311. **Phyllosticta Globulariæ** West. Bull. Ac. Belg. II. Ser. t. XII. n. 7. — Maculis subrotundis, fuscis, centro expallentibus, linea fusco-nigricante cinctis; peritheciis epiphyllis, sparsis, punctiformibus, nigrescentibus, poro pertusis; sporulis ovoideis, hyalinis, 2-guttulatis. 311

Hab. in foliis Globulariæ vulgaris, in Belgio (Crépin).

312. **Phyllosticta Erythrææ** Sacc. et Sp. Mich. I. p. 152. — Maculis nullis; peritheciis per totum folium flavescens remote sparsis, globoso-lenticularibus, prominulis, atris; sporulis oblongo-el- 312

lipsoideis, 7–10 ≃ $2^1/_2$–3, medio sæpe leniter contractis, 2-guttulatis, hyalinis.

Hab. in foliis Erythrææ Centaurii, Conegliano in Italia boreali.

313. **Phyllosticta Ebuli** (Fuck.) Sacc. *Ascochyta Ebuli* Fuck. Symb. pag. 386. — Peritheciis in maculis expallescentibus, gregariis, conicis, fuscis, apice candidis; sporulis minutis, cylindraceis, simplicibus. 313

Hab. in foliis languidis Sambuci Ebuli, in Germania et Ital. 314

314. **Phyllosticta Nesææ** Peck. 34 Rep. St. Mus. p. 44. — Maculis subcircularibus, sparsis v. confluentibus, pallide rufis; peritheciis hypophyllis, exiguis, numerosis; sporulis oblongis, rectis curvulisve, hyalinis, 7–10 ≃ 2,5.

Hab. in foliis vivis Nesææ verticillatæ, South Ballston in America boreali.

315. **Phyllosticta Wigandiæ** Thüm. Contr. Fung. Lit. n. 206, tab. I. f. 1. — Peritheciis mediis, epiphyllis, semiimmersis, hemisphæricis, sparsis, nigris in macula grisea, exarida, corrosa, parva; sporulis generis, minutis, 8–10 ≃ 4, achrois. 315

Hab. ad folia viva Wigandiæ imperialis, in calidariis agri Goritiensis.

316. **Phyllosticta Phytolaccæ** Cooke Grev. XII. p. 25. — Epiphylla; maculis orbicularibus, fuscis; peritheciis minutis, semiinnatis, fuscis; sporulis breviter linearibus, obtusis, hyalinis, rectis, 8 ≃ 1,5. 316

Hab. in foliis Phytolaccæ, in Carolina australi (Ravenel).

317. **Phyllosticta Gillesii** Speg. F. Argent. Pug. III. n. 270. — Maculis orbicularibus, determinatis, 2–5 mill. diam., arescenti-albescentibus, amphigenis; peritheciis centralibus, epiphyllis, lenticulari-globosis, 70–80 μ. diam, tenuissime membranaceis, contextu parenchymatico, olivaceo-fusco; sporulis ellipticis v. elliptico-cylindraceis, rectis v. curvulis, utrinque obtusiusculis, non v. 1-guttulatis, 7–10 ≃ 3–3,5, hyalinis. 317

Hab. in dumetis ad folia viva Philibertiæ Gillesii, en los Montes Grandes in Argentina.

318. **Phyllosticta Thermopsidis** Thüm. Pilzfl. Sibir. n. 802. — Peritheciis hypophyllis, dense gregariis, sine ordine dispositis, pro ratione magnis, hemisphærico-prominulis, primo tectis, demum liberatis, semiimmersis, nitido-atris in macula magna, irregulari, arescendo sordide fusca; sporulis bacillaribus, utrinque subrotundatis, enucleatis, continuis, rectis, hyalinis, 4–5,5 ≃ 1,5–2. 318

Hab. in foliis vivis languidisve Thermopsidis lanceolatæ, in desertis prope Minussinsk in Sibiria.

III. *In plantis monocotyledoneis et acotyledoneis.*

319. **Phyllosticta ruscicola** Dur. et Mont. Fl. Alg. I. p. 611. Desm. Not. XIV. 32. — Maculis subcircularibus vagisve, arescendo albicantibus, brunneo-cinctis; peritheciis minutis, globoso-lenticularibus, initio tectis; sporulis oblongis, 7–8 ≃ 3½, lutescenti-viridulis. 319

Hab. in cladodiis Rusci aculeati, R. hypophylli, R. androgyni et R. Hippoglossi, socia *Leptosphæria Rusci* (Wallr.) Sacc., cujus est probabile spermogonium, in Italia, Belgio, Gallia, Britannia, Austria, Lusitania.

320. **Phyllosticta Tami** Sacc. Mich. I. pag. 142. — Maculis subcircularibus oblongisve, arescendo expallentibus, rufo-marginatis; peritheciis punctiformibus, lenticularibus, pertusis, laxe ochraceo-parenchymaticis; sporulis oblongo-cylindraceis, 7–8 ≃ 3–4, ad medium quandoque subconstrictis (sed continuis), utrinque rotundatis et 1-guttulatis, hyalinis. 320

Hab. in foliis Tami communis, Conegliano in Ital. bor.

321. **Phyllosticta melanoplaca** Thüm. Pilzfl. Sibir. n. 808. — Peritheciis numerosis, densissime gregariis confluentibusque, minimis; maculas lineares, longas, nervisequentes, nigras efficiens; sporulis cylindricis, utrinque truncatulis, continuis, interdum medio subinflexis, rectis, enucleatis, hyalinis, 4–5 ≃ 2. 321

Hab. ad folia viva languidave Veratri albi, in pratis subalpinis pr. fluvium Irba in Sibiria.

322. **Phyllosticta liliicola** Sacc. Fungi Ven. Ser. II. p. 303. Mich. I. p. 152. — Maculis nullis v. obsoletis; peritheciis hinc inde congregatis, amphigenis, punctiformibus, globulosis, pertusis; sporulis ovoideis, 10 ≃ 3, 2-guttulatis, hyalinis. 322

Hab. in foliis languidis Lilii candidi, Selva in Ital. boreali, socia *Sphærella Maturna* Sacc., cujus spermogonium videtur.

323. **Phyllosticta Dioscoreæ** Cooke Grev. VIII. 136. *Septoria Dioscoreæ* Cooke Hedw. 1878, p. 38. — Maculis intense ochraceis; peritheciis lenticularibus, pertusis, 100 μ. diam.; sporulis ovoideis, 7 ≃ 5–6, granulosis, hyalinis. 323

Hab. in foliis Dioscoreæ, Aiken in Carolina, et in Gallia austr. 324

324. **Phyllosticta cruenta** (Fr.) Kx. Flandr. I. 412. Mich. I. p. 142

et 341, *Sphæria cruenta* Fr. S. M. II. p. 581. — Maculis subcircularibus oblongisve, amœne sanguineis, dein centro pallentibus; peritheciis gregariis sparsisve, epiphyllis, globoso-lenticularibus, astomis, contextu compacto, crassiusculo, atro-olivaceo; sporulis ovato-oblongis, 14–16 ≃ 5,5–6,5, curvulis, intus granulosis; basidiis cylindraceis, brevibus, 10–12 ≃ 4 suffultis.

Hab. in foliis Polygonati multiflori, officinalis et Smilacinæ, in Italia, Germania, Gallia, Lusitania, Belgio, Sibiria, America boreali.

325. **Phyllosticta Uvariæ** Berk. in Curr. Simpl. Sphær. n. 387, f. 147. — Maculis subcircularibus v. irregularibus, centro brunneis, obscuriusque marginatis; peritheciis perexiguis, nigris; sporulis ellipsoideis v. subglobosis, 5–10 μ. long., hyalinis. 325

Hab. in foliis Uvariæ trilobæ (cultæ?).

326. **Phyllosticta Donckelaeri** West. 5 Not. n. 60. — Maculis hypophyllis subcircularibus, magnis, albido-cinereis, margine subelevato rufo-fusco; peritheciis semiinnatis, copiosis, nigris, nitidulis, subconcentricis, pertusis; sporulis ovato-cylindraceis, hyalinis, 15 ≃ 3, 2–3-guttulatis. 326

Gab. in foliis Oncidii, in calidariis Gand urbis Belgicæ (J. Donckelaer).

327. **Phyllosticta Orontii** Ell. et Mart. Amer. Nat. 1882, p. 1002. — Maculis latis flavicantibus, obsolete marginatis; peritheciis epiphyllis, brunneis, 56 μ. diam.; sporulis ovoideis, 6 ≃ 2,5. 327

Hab. in foliis Orontii aquatici, New Jersey in Amer. bor.

328. **Phyllosticta acorella** Sacc. et Penz. Mich. II. p. 620. — Maculis oblongis deustis; peritheciis amphigenis, gregariis, punctiformibus, fusco-nigris; sporulis cylindraceis, utrinque subincrassatis (ossiformibus), perexiguis, 3,5–4 ≃ 1–1,5. 328

Hab. in foliis languidis Acori Calami, in Gallia (Therry).

329. **Phyllosticta Acori** Oud. Aanw. Myc. Nederl. 1876, pag. 6. — Maculis elongatis nigris; peritheciis minutissimis, non nisi folio dissecto detegendis, atris; sporulis exilissimis, ovalibus, gelatina nidulantibus. 329

Hab. in foliis Acori Calami, in Hollandia. — Cellulæ perithecii circa ostiolum in fila subtilia flagelliformia, achroma, denique septata mox abeunt.

330. **Phyllosticta Cocos** Cooke in Grevillea. — Maculis pallidis, irregularibus, subellipticis, brunneo-cinctis; peritheciis punctiformibus, atris; sporulis arcte ellipticis, 8 ≃ 3. 330

Hab. in foliis Cocos nuciferæ, Belgaum in India (Hobson).

331. **Phyllosticta Curreyi** Sacc. *Sphæria* (Depazea) *Alismatis* Curr. Simpl. Sphær. p. 334, f. 154. — Peritheciis subglobosis, castaneis (saltem in sicco); sporulis ellipsoideis, subglobosis v. turbinatis, basi subinde apiculatis (stipitatis?), hyalinis, marginatis, 10–13 μ. long. 331

Hab. in foliis Alismatis Plantaginis, Suffolk in Britanniæ (Stock). — A *Ph. Alismatis* Sacc. et Speg. diversa.

332. **Phyllosticta Alismatis** Sacc. et Speg. Mich. I. p. 144. — Maculis latis, arescendo albicantibus, fuligineo-cinctis; perithecciis gregariis, sublenticularibus, nigricantibus; sporulis oblongo-ellipsoideis, 8 ≃ $3^1/_2$, utrinque rotundatis, hyalinis. 332

Hab. in foliis Alismatis Plantaginis, in Italia boreali, Sibiria et Lusitania.

333. **Phyllosticta aquatica** Speg. in Mich. I. pag. 483. — Peritheciis subepidermicis, lenticularibus, 100–110, ostiolo latiusculo, 10 μ. diam., pertuso; contexu laxissime et tenuissime parenchymatico-membranaceo, olivaceo; sporulis ellipticis, utrinque obtusiusculis, quandoque inæquilateralibus, hyalinis, 4–5 ≃ 2. 333

Hab. ad folia putrida Lemnæ minoris, prope Conegliano in Italia boreali.

334. **Phyllosticta Draconis** Berk. in Welw. F. Port. p. 5. 334

Hab. in foliis Dracænæ Draconis, Ajuda in Lusitania et Collioure in Gallia. — Exemplaria in F. Gall. n. 233 nil *Phyllostictæ* præbent. Cl. Berkeley nullam diagnosim refert quia specimina lusitanica omnino sterilia.

335. **Phyllosticta Aloes** Kalch. Grevill. IX. pag. 20. — Epiphylla; maculis ellipticis, aurantio-fuscis; perithecciis membranaceis, gregariis, fuscis, immersis; sporulis ellipticis, profusis, hyalinis, 5 μ. longis. 335

Hab. in Aloe latifolia, in Africa australi.

336. **Phyllosticta Renouana** Sacc. et Roum. Reliq. Myc. Lib. IV. p. 117. — Maculis elongatis, cinnamomeis, centro expallentibus; perithecciis globoso-lenticularibus, innatis punctiformibus; sporulis ovato-ellipsoideis, 4 ≃ 2, hyalinis. 336

Hab. in foliis Typharum, in Gallia et Germania.

337. **Phyllosticta typhina** Sacc. et Malb. Mich. II. pag. 88. — Maculis oblongis, amphigenis, rubiginosis, centro pallidioribus, majusculis; perithecciis centralibus, lenticularibus, pertusis, 100–110 μ. diam., contextu tenui, parenchymatico, fulvello; sporulis ovoideis, 4 ≃ $1^3/_4$–2, 2-guttulatis, hyalinis. 337

Hab. in foliis nondum emortuis Typhæ latifoliæ, in Gallia centrali (Malbranche).

338. **Phyllosticta sorghina** Sacc. Mich. I. p. 140. — Maculis sinuosis, variis, expallentibus, zona sanguinea cinctis; peritheciis punctiformibus, sparsis, pertusis; sporulis ellipsoideis, utrinque rotundatis, 5 ≃ 2, 2-guttulatis, hyalinis. 338

Hab. in foliis Sorghi vulgaris, socia *Ascochyta Sorghi* Sacc. et *Sphærella Cerere* Sacc., cujus est probabile spermogonium, Selva in Ital. bor.; et in Sorgho halepensi, pr. Coimbra in Lusitania. — *Phyll. Sorghi* Anzi in Rabh. F. E. n. 2162 sistit formam leptostromaceam v. phyllachoraceam, cujus sporas proprias non vidi.

339. **Phyllosticta hæmatocycla** Berk. in Welw. F. Portug. p. 5. — Maculis latissimis, pallidis, rufo-cinctis; peritheciis parcis submarginalibus; sporulis oblongo-subclavatis; sporophoris clavatis. 339

Hab. in foliis Phormii tenacis, Lisboa in Lusitania.

340. **Phyllosticta Caricis** (Fuck.) Sacc. *Ascochyta Caricis* Fuck. Symb. Myc. p. 386. — Peritheciis hypophyllis in macula fusca, sparsis, hemisphæricis, astomis, atro-nitidis; Sphærellæ punctiformis magnitudine; sporulis numerosis, cylindraceis, rectis, continuis, hyalinis. 340

Hab. in foliis vivis Caricis muricatæ, prope Vollrads in Germania.

341. **Phyllosticta? scirpicola** (Lév.) Sacc., *Cheilaria scirpicola* Lév. Fragm. mycol. in Ann. Sc. nat. 1848, p. 252. — Peritheciis innatis, subglobosis vel ovatis, nigris, rima longitudinali dehiscentibus, disco concolori; sporulis minutis, ovato-elongatis, subfusiformibus, continuis. 341

Hab. ad culmos Scirpi palustris, Meudon prope Parisios.

342. **Phyllosticta crastophila** Sacc. Mich. I. p. 153. — Maculis obsoletis v. sordide ochraceis; peritheciis late sed laxiuscule gregariis, globoso-lenticularibus, innato-prominulis, atris; sporulis oblongis, 5-6 ≃ 2, rectis, utrinque obtusiusculis, 2-guttulatis, hyalinis. 342

Hab. in foliis Setariæ verticillatæ, Selva in Italia bor.

343. **Phyllosticta Marchantiæ** Sacc. Mich. I. p. 144. — Maculis vagis, epiphyllis, arescendo dealbatis, fusco-cinctis; peritheciis punctiformibus, atris, lenticularibus, 70-80 μ. diam., pertusis; sporulis oblongo-cylindraceis, 5 ≃ 1, curvulis rectisve, 2-guttulatis, hyalinis. 343

Hab. in fronde Marchantiæ, Sernaglia (Treviso) in Italia boreali.

344. **Phyllosticta Peltigeræ** Karst. Hedw. 1884, p. 62. — Peritheciis maculæ dealbatæ insidentibus, laxe gregariis, emergentibus, rotundatis, astomis, subnitentibus, atris, 0,2 mill. lat.; sporulis oblongatis, rectis, eguttulatis, 3-6 ≃ 2. 344

Hab. in thallo semiemortuo Peltigeræ caninæ, ad Mustiala in Fennia.

345. **Phyllosticta innumera** Cooke et Harkn. Grevill. IX. p. 81. — Hypophylla; peritheciis exiguis, aliis in maculas orbiculares dispositis, aliis in plagas maximas gregariis; sporulis ellipticis, hyalinis, continuis, 4,5 ≃ 2. 345

Hab. in foliis viventibus (cujus plantæ?), in America boreali.

APPENDIX

Depazea Fr.: Species sporulis ignotis ergo dubiæ *).

346. **Depazea Impatientis** Kirchn. in Lotos 1856, p. 184. 346

Hab. in foliis vivis Impatientis Nolitangere, in Germania, Austria et Sibiria.

347. **Depazea Hydrocotyles** Rabh. in Kl. Herb. Myc. 1143. 347

Hab. in foliis Hydrocotyles vulgaris in Germania.

348. **Depazea calthæcola** DC. Fl. franc. — Maculis albis vix circumscriptis; peritheciis minutis, sparsis, planis, nigris. 348

Hab. in foliis Calthæ, in Gallia. — Maculæ 1 lin., frequentes, rotundatæ, ovales v. confluentes, sæpe steriles; perithecia epiphylla videntur.

349. **Depazea Lychnidis** Fr. in Myc. Heft II. p. 53 et S. M. II. 531. — Maculis indeterminatis, albicantibus; peritheciis hemisphæricis, prominulis; disco demum nudo, opaco, rugoso, atro. 349

Hab. in foliis Lychnidis viscariæ, in Germania.

350. **Depazea gentianæcola** (DC.) Fr. S. M. II. pag. 531, *Sphæria gentianæcola* DC. Fl. franc. — Maculis rufescentibus, subzonatis, vix circumscriptis; peritheciis centrali-confertis, convexis, nigris. 350

Hab. in foliis Gentianæ luteæ et cruciatæ, in Germania, Gallia et Helvetia. — Maculæ orbiculares, unciales, punctis numerosis, perexiguis.

---

*) Plures aliæ species sub nomine *Depazeæ* et *Ascochytæ* in Klotzschii, Rabenhorstii, Kirchneri exsiccatis librisque reperiuntur vel sine diagnosi vel cum diagnosi imperfecta. Quum vero hæ formæ ad *Phyllostictæ* vel *Septoriæ* vel *Ascochytæ* species jam rite cognitas verisimiliter spectent, hic penitus omittuntur.

351. **Depazea Aquilegiæ** Rabh. in Klotzsch, Herb. mycol. n. 1651. 351
Hab. in foliis Aquilegiæ, in Germania et Sibiria.

352. **Depazea Erdingeri** Thüm. F. austr. n. 697. — Peritheciis minimis, numerosis, globosis, atris in maculis expallescentibus, aridis, griseis. 352
Hab. in foliis Sisymbrii Lœselii, in loco unico, prope Krems in Austria.

353. **Depazea Linnææ** Ehrenb. — Maculis candidis, ambitu lato roseo; peritheciis gregariis, epiphyllis, minimis, hemisphæricis, subconcavis, atro-nitidis. 353
Hab. in foliis Linnææ borealis, in Germania.

354. **Depazea Lythri** Kirchn. in Lot. 1856, p. 202. 354
Hab. in foliis Lythri Salicariæ, in Germania et Austria.

355. **Depazea Acetosæ** Op. Seznam rostlin p. 120. 355
Hab. ad folia viva Rumicis Acetosæ, in Austria et Sibiria.

356. **Depazea** (Phyllosticta) **Veronicæ** Lacaille in Rev. Myc. II. p. 62. 356
(tantum nomen).
Hab. in foliis Veronicæ speciosæ, prope Bolbec, Havre in Gallia.

357. **Depazea** (Phyllosticta) **Cymbalariæ** Lacaille in Rev. Myc. II. 357
p. 62.
Hab. in foliis Linariæ Cymbalariæ, prope Bolbec, Havre in Gallia.

358. **Depazea Lycoctoni** Kirchn. Lotos 1856, p. 184. 358
Hab. in foliis Aconiti Lycoctoni, in Bohemia merid.

359. **Depazea adoxicola** Lasch, in Kl. Herb. myc. 1648. 359
Hab. in foliis Adoxæ Moschatellinæ, in Germania.

360. **Depazea Agrimoniæ** Lasch, in Kl. Herb. myc. n. 1356. 360
Hab. in foliis Agrimoniæ, in Germania.

361. **Depazea Asperulæ** Lasch, in Kl. Herb. myc. n. 1867. 361
Hab. in foliis Asperulæ, in Germania.

362. **Depazea Trientalis** Lasch, in Kl. Herb. myc. n. 364, Rabenh. 362
Deut. Cr. F. n. 1250. — Maculis albis, brunneo-cinctis; peritheciis globosis, prominulis, atris.
Hab. in foliis Trientalis europææ, in Germania.

363. **Depazea Meliloti** Lasch, in Kl. Herb. myc. n. 370. — Maculis 363
ochraceo-fuscis, obsolete marginatis; peritheciis grandiusculis, brunneo-atris, subumbilicatis, subconcentricis.
Hab. in foliis Meliloti vulgaris, in Germania.

364. **Depazea polygonicola** Lasch, in Kl. Herb. viv. mycol. n. 566. 364

Hab. in foliis Polygoni et Fagopyri, in Germania et Austria.

365. **Depazea balloticola** Fr. S. M. II. p. 532. — Maculis albido-rufescentibus, ambitu fusco cinctis; peritheciis minimis, sparsis, convexis, nigris. 365

Hab. in foliis Ballotæ nigræ, in Suecia, Germania et Italia.

366. **Depazea Pirolæ** Ehrenb. Ber. p. 29. — Maculis purpureis, demum nigricante-cinctis; peritheciis gregariis, hemisphæricis, demum collapsis ruptis. 366

Hab. in foliis Pirolæ umbellatæ et secundæ, in Germania. — Perithecia tecta, atra, nitida, interdum confluxa.

367. **Depazea** (Phyllosticta) **glauca** Cooke in Rav. Fung. Amer. n. 93 (sub *Septoria*). — Maculis circulari-sinuosis, epiphyllis, albidis, atro cinctis; peritheciis gregariis, punctiformibus, atris; sporulis..... (a me non inventis et a Cooke non descriptis). 367

Hab. in foliis Magnoliæ glaucæ, Gainesville in Amer. bor.

368. **Depazea** (Phyllosticta) **Coluteæ** Fiedl. in Rabenh. F. E. n. 877, Hedw. 1875, p. 159 (nulla descriptio). 368

Hab. in foliis Coluteæ, in Germania.

369. **Depazea celastrina** Lév. An. Scienc. Nat. 45, p. 55. — Maculis albo-sordidis, ambitu nigris; peritheciis sparsis vel gregariis globosis, nudis, demum depressis, epidermide fissa tectis. 369

Hab. ad folia Celastri, in Nova Calædonia (Labillardière).

370. **Depazea tremulæcola** DC. Fl. franc. VI. p. 147. — Maculis orbiculatis, fuscis; peritheciis epiphyllis, sphæricis, nitidis, in centro griseo, confluente-stipatis. 370

Hab. in foliis Populi tremulæ, in Suecia, Gallia, Germania et Italia. — Maculæ minutæ, 1-2 lin. latæ, in ambitu absque peritheciis, quæ confertissima, nitida, vix circumscissa.

371. **Depazea carpinea** (Schwein.) Fr. S. Myc. II. p. 530, *Xyloma carpineum* Schw. Carol. n. 287. — Macula pallida; peritheciis punctiformibus, subconcentricis sparsisque, elevatis, nigro-fuscis. 371

Hab. in foliis Carpini, in Carolina (Schweinitz).

372. **Depazea Arecæ** Spreng. V. A. H. p. 52. — Maculis indeterminatis, obsoletis, pallescentibus; peritheciis epiphyllis, hemisphæricis, prominulis, nitidis, stellulato-stipatis. 372

Hab. in foliis Arecæ oleraceæ. — Perithecia in cæspitulos, lineam latos, aggregata, sed non confluentia, folium leviter dealbantia, glabra, nigra, intus fusca, demum disco collapso nudo subpulverulento.

373. **Depazea** (Phyllosticta) **Sagittariæ** Rabh. Fungi europ. n. 553 (absque diagnosi). 373

Hab. in foliis Sagittariæ sagittifoliæ, Knielingen et Hattenheim in Germania, et Minussinsk in Sibiria.

374. **Depazea smilacicola** Rabh. in Klotz. Herb. myc. n. 1148. 374

Hab. in foliis Smilacis, Ancona in Italia. — An eadem ac *Septoria smilacina?*

375. **Depazea** (Phyllosticta) **Palmarum** R. Rabh. Hedw. 1876, p. 120, F. Eur. n. 2161. — Maculis sinuosis, amphigenis, expallentibus, atro-marginatis; peritheciis..... nullis visis. 375

Hab. in foliis nondum emortuis Palmarum, in insula Carmen (Campeche Bay). — Legit Rud. Rabenhorst filius.

376. **Depazea Cypripedii** Kirchn. in Lotos 1856, p. 202. 376

Hab. in foliis Cypripedii, in Bohemia meridionali.

377. **Depazea** (Phyllosticta) **Sorghi** Anzi in Hedw. 1876, p. 120, F. Eur. n. 2162. — Maculis amphigenis, sinuosis, oblongis, centro nigricantibus, zona albida, sanguineo-marginata cinctis; peritheciis..... nullis visis. 377

Hab. in foliis Sorghi saccharati et vulgaris, in Italia boreali.

378. **Depazea crispans** Fr. Elench. Fung. II. p. 111. — Maculis latis, indeterminatis, griseis, in ambitu fulvis; peritheciis semiimmersis, prominulis, confertis, globosis. 378

Hab. in foliis Convallariæ bifoliæ, in Gallia (Mougeot). — Peritheciis globosis!, subtectis, semiemersis, persistentibus, et habitu bene differt hæc species. Maculæ late effusæ, submarginales, folia contorta reddunt.

379. **Depazea paridicola** Rabenh. in Kl. Herb. myc. n. 868. 379

Hab. in foliis Paridis, in Germania.

PHOMA Fr. em. Desm. XIII. Not. p. 6, Sacc. Mich. II. p. 4. (Etym. *phos,* pustula). *Clisosporium* Bon., *Sphæropsis* Lév. et Auct. p. p., *Gerulajacta* Preuss p. p., *Coniothyrium* Auct. p. p., *Sporonema* Desm. p. p. — Perithecia subcutanea, dein erumpentia, membranacea, subcoriacea v. subcarbonacea, globosa v. compressa, glabra, erostria, ostiolo minuto, subinde obsoleto. Sporulæ ovoideæ, fusoideæ, cylindraceæ, rarius sphæroideæ, continuæ, hyalinæ, ut plurimum 2-guttatæ. Basidia filiformia, subinde brevissima v. obsoleta, simplicia, raro furcata. — Genus vastissimum, tædiosum, in plura facile dividendum; quod ipse fecissem, si species omnes ple-

nius cognitæ essent. Adsunt enim species, aptius separandæ, perithecio subastomo depresso, basidiis demum uncinatis instructæ (*Phomopsis*) spermogonia *Diaporthes* sistentes; aliæ perithecio subrimoso compresso ornatæ (*Hysterophoma*). Species vero epixylas a *Phoma* separavi (*Asposphæria*) nec non illas basidiis verticillato-ramosis instructas (*Dendrophoma*). *Sphæropsidis* Lév. et Auct. species hyalosporæ a *Phoma* distingui nequeunt, nisi quia iis sporulæ et peritheeia plerumque paulo crassiora sint, quibus vero notis subgenus aliud (*Macrophoma*) institui potest.

I. *In Dicotyledoneis lignosis.*

A) Ramicolæ.

1. **Phoma occidentalis** Saec. Mich. II. p. 95. — Peritheciis gregariis, 380
epidermide velatis, globoso-depressis, nucleo olivascente; sporulis fusoideis, 10 = 2, minute 2-guttulatis, hyalinis; basidiis non visis.

Hab. in ramulis Gleditschiæ Triacanthi, Rouen in Gallia (Letendre). — Sperm. *Diaporthes*.

2. **Phoma Gleditschiæ** (Thüm.) Sacc. *Coniothyrium Gleditschiæ* Thüm. 381
Symb. Myc. Austr. I. n. 6. — Peritheciis sparsis, immersis, subglobosis, fere tuberculi-formibus, rimosis, atro-fuscis, magnis; sporulis globosis vel ellipsoideis, simplicibus, numerosis, 3-4 = 2,5-3, achrois.

Hab. ad ramos, spinasque emortuas Gleditschiæ Triacanthi, Klosterneuburg in Austria.

3. **Phoma mamillaris** B. et C. *Sphæropsis mamillaris* B. et C. North 382
Am. Fung. n. 412. — Peritheciis sparsis vel congestis, mamillæformibus, cuticula cinctis; sporulis oblongo-obovatis, hyalinis, 15 = 5.

Hab. in ramis Gleditschiæ, in Carolina inf., regione Americæ borealis.

4. **Phoma Vincentiana** Speg. F. Arg. Pug. I. pag. 189. — Perithe- 383
ciis sparsis, primo subepidermicis, tectis, dein ob corticem secedentem liberis, globoso-conoideis, $^1/_3$-$^1/_4$ mill., rugulosis, membranaceo-carbonaceis, atris, ligno immutato vel infuscato adnatis; sporulis elongato-ellipticis, utrinque acutiuscule rotundatis, 8-10 = 3-4, et uniguttulatis, continuis, hyalinis; basidiis cylindraceis, hyalinis, 15 = 1-2, suffultis.

Hab. in ramulis Parkinsoniæ aculeatæ, S. Vincent, insula Africæ, et prope Buenos-Aires in Argentina, regione Americæ meridionalis.

5. **Phoma Cassiæ** Sacc. Mich. II. pag. 145. — Peritheciis gregariis, 384

epidermide albicante velatis, globoso-depressis, 110 μ. diam., pertusis; sporulis breve fusoideis, 6-8 ≃ $1^3/_4$-2, 2-guttulatis, hyalinis; basidiis teretiusculis, æquilongis, suffultis.

Hab. in ramis Cassiæ occidentalis, in Carolina, regione Americæ borealis (Ravenel). — Spermogonium *Diaporthes*.

6. **Phoma Coluteæ** Sacc. et Roum. Mich. II. p. 338. — Perithecis 385
gregariis, lenticularibus, $^1/_3$ mill. diam., initio epidermide cinerescente velatis, griseis; sporulis oblongis, 7 ≃ 3, 2-guttulatis, hyalinis; basidiis subæquilongis suffultis.

Hab. in ramis Coluteæ arborescentis, prope Toulouse in Gallia. — Spermogonium *Diaporthes*.

7. **Phoma Coronillæ** West. Exs. n. 966. — Perithecis sparsis, gre- 386
gariisque exiguis, subglobosis, innato-erumpentibus; nucleo albido; sporulis ovato-oblongis, 7-8 ≃ 3, biguttulatis, hyalinis; basidiis filiformibus, arcuatis, 20 ≃ 1,5.

Hab. in ramulis emortuis Coronillæ Emeri, in Belgio et Italia. — Spermogonium *Diaporthes Coronillæ* Sacc.

8. **Phoma inæqualis** Speg. F. Arg. Pug. II. pag. 128. — Perithecis 387
densiuscule sparsis, ligno insculptis, cortice et linea stromatica tectis circumscriptisque, minutis; sporulis elliptico-elongatis, inæquilateralibus, biguttulatis, utrinque acutato-rotundatis, 7-10 ≃ 2-3, hyalinis.

Hab. in ramulis dejectis emortuis Ulicis europæi, in hortis San José de Flores in Argentina. — Status spermogonicus *Diaporthes inæqualis* Nits.

9. **Phoma Spartii** Sacc. Mich. I. p. 359. — Perithecis gregariis, cor- 388
tice velatis, dein, ipso secesso, superficialibus, basi ligno insculptis, oblongis, quandoque subhysteriiformibus, $^1/_3$-$^1/_5$ mill., nigris; ostiolo sæpe rimose dehiscente; sporulis fusoideis, 10-11 ≃ 2-$2^1/_2$, 2-guttulatis, hyalinis; basidiis filiformibus, curvis, 20-22 ≃ $1^1/_2$-2, suffultis.

Hab. in trunco Spartii, prope Alençon in Gallia (C. C. Gillet). — Verisimiliter status spermogonicus *Diaporthes* cujusdam.

10. **Phoma Sophoræ** Sacc. F. Ven. Ser. V. p. 202. — Perithecis sub 389
epidermide denique minute fissa nidulantibus, lenticularibus, atris plagulasque sinuosas quandoque in cortice superiore nigrolimitatas efformantibus, $^1/_4$ mill. diam.; sporulis oblongo-ovoideis, 8-10 ≃ $3^1/_2$-4, 2-guttulatis, hyalinis; basidiis filiformibus, hamatis, 25 ≃ $^1/_2$, fultis.

Hab. in ramis Sophoræ japonicæ, in Italia boreali, Austria et Gallia merid. — Spermogonium *Diaporthes*.

11. **Phoma Siliquastri** Sacc. Mich. II. p. 341. — Peritheciis dense gregariis, globoso-depressis, subcutaneis vix erumpentibus, griseis; sporulis oblongo-subfusoideis, 6–7 ≃ 2–2½, hyalinis. 390

Hab. in ramulis corticatis Cercidis Siliquastri, Saintes in Gallia (Brunaud). — Spermogonium *Diaporthes*.

12. **Phoma Sarothamni** Sacc. Cfr. Syll. II. p. 663. — Peritheciis globoso-depressis, subcutaneo-erumpentibus; sporulis oblongo-fusoideis, 8–12 ≃ 2, biguttulatis, hyalinis; basidiis filiformi-hamatis, 30 ≃ 1. 391

Hab. in ramis Sarothamni Scoparii, in Germania. — Spermogonium *Diaporthes Sarothamni*.

13. **Phoma sepcsita** Sacc. I. Ven. Ser. IV., sub n. 16 et Ser. V., n. 295. — Peritheciis globoso-depressis, in cortice exteriore nidulantibus, pulpa obscura fœtis; sporulis oblongo-fusoideis, 7–10 ≃ 3, hyalinis, 2-guttatis; basidiis filiformibus curvulis vel hamatis, 20–24 ≃ 1–2. 392

Hab. in ramis Wistariæ sinensis, in Italia boreali et Gallia. — Spermogonium *Diaporthes*.

14. **Phoma Amorphæ** Sacc. Mich. I. p. 523. — Peritheciis gregariis, globoso-lenticularibus, subcutaneis, pertusis, $^1/_{10}$–$^1/_7$ mill. diam.; sporulis ovatis, 6–7 ≃ 4, utrinque obtusiusculis, hyalinis (basidiis non visis). 393

Hab. in ramulis Amorphæ fruticosæ, in Gallia (Letendre).

15. **Phoma Laburni** (West.) Sacc. *Sphæropsis Laburni* West. 5. Not. n. 32. — Peritheciis sphæricis, subinnatis, 1 mill. circ. diam., epidermidem dein nigrificatam sublevantibus atque cum ea laciniatim secedentibus; nucleo albido; sporulis ovoideis, hyalinis, 20–30 ≃ 13–14. 394

Hab. in ramis corticatis Cytisi Laburni, in Belgio et Italia. — Cum *Cucurbitaria Laburni* forte metagenetice connexa.

16. **Phoma rudis** Sacc. Mich. I. p. 257. Cfr. Fuck. Symb. 209 et Sacc. Syll. I. p. 662. — Peritheciis gregariis, epidermide primitus velatis, globoso-depressis; sporulis oblongo-cylindraceis, 6–7 ≃ 2, 2-guttulatis, hyalinis; basidiis filiformibus fultis. 395

Hab. in ramulis emortuis Cytisi Laburni, in Italia boreali, Gallia, Germania. — Spermogonium *Diaporthes rudis*.

17. **Phoma mendax** Sacc. Mich. I. p. 521. — Peritheciis gregariis, subcutaneis, globoso-depressis, nigricantibus; sporulis elongatis, 10 ≃ 2, 2-guttatis, hyalinis; basidiis filiformibus, demum hamatis, 25 ≃ 1. 396

Hab. in ramis Albizziæ Julibrissiri, in Gallia et Italia.

18. **Phoma clavuligera** (B. et C.) Sacc. *Sphæropsis clavuligera* B. et C. F. of Cuba n. 562. — Peritheciis subcuticularibus depressis; sporulis oblongo-clavatis, hyalinis, 14-15 μ. longis; basidiis seu sporophoris brevibus. 397

Hab. in caulibus Dipterici odoratæ (*Congo-bean*) in Cuba.

19. **Phoma abnormis** (B. et C.) Sacc. *Cytispora abnormis* B. et C. North. Am. Fungi n. 459. — Pustulis minutis, apice tantum erumpentibus; sporulis oblongis, binucleatis, 7-8 μ. longis. 398

Hab. in ramis Robiniæ, in Carolina inf.

20. **Phoma oncostoma** Thüm. M. U. n. 877. — Peritheciis gregariis, subcutaneis, globoso-depressis, atro-olivaceis, subinæqualibus; sporulis fusoideis, utrinque acutis, 10 ≃ 2, biguttatis, hyalinis; basidiis longis, demum hamatis. 399

Hab. in ramulis corticatis Robiniæ Pseudacaciæ, in Italia, Gallia, Germania. — Spermogonium *Diaporthes oncostomæ.*

21. **Phoma Robiniæ** (Pr.) Sacc. *Sphærocista Robiniæ* Preuss Hoyersw. n. 35. — Peritheciis corneis, in stromate expanso arcte et singulatim insidentibus; ostiolo perforato; basidiis filiformibus; sporulis fusiformibus, curvatis, utrinque acutis; guttulis quaternis repletis, albis. 400

Hab. in Robinia, Hoyerswerda. — An diversa a *Ph. oncostoma?*

22. **Phoma Pseudacaciæ** Sacc. — Peritheciis gregariis, majusculis, conico-truncatis v. subhemisphæricis, subcutaneis, poro apertis; sporulis ovato-fusoideis, 8-10 ≃ 2,5-3; basidiis filiformi-hamatis, 20-22 ≃ 1. 401

Hab. in ramis corticatis Robiniæ Pseudacaciæ, in Italia, Germania, Gallia, socia *Diaporthe fasciculata,* cujus est spermogonium.

23. **Phoma Fuckelii** Sacc. Mich. II. pag. 52. — Peritheciis minutis, globulosis, atris; sporulis minutissimis, botuliformibus, 3-4 ≃ ¾, hyalinis; basidiis bacillaribus, 8 ≃ 1, e strato proligero luteolo oriundis. 402

Hab. in ramis Robiniæ Pseudacaciæ, in Vogesis Galliæ, intermixta *Cœlosphæria Fuckelii,* cujus spermogonium videtur.

24. **Phoma cryptica** (Nits.) Sacc. Mich. I. p. 521. — Peritheciis gregariis, subcutaneis, globoso-depressis, griseo-atris, obtusis; sporulis oblongo-fusoideis, 8 ≃ 3, 2-guttulatis, hyalinis; basidiis filiformi-curvatis. 403

Hab. in ramis Loniceræ tartaricæ, Caprifolii, Xylostei, in Germania, Italia et Gallia. — Spermogonium *Diaporthes.*

25. **Phoma Ryckholtii** Sacc. Cfr. Syll. I. p. 680. — Peritheciis subcutaneis, gregariis, globoso-depressis; sporulis obtuse fusoideis, 6–8 ≃ 2,5, biguttatis, hyalinis, longiuscule stipitatis. 404

Hab. in ramis Symphoricarpi racemosæ, in Italia, Germania, Belgio. — Spermogonium *Diaporthes Ryckholtii.*

26. **Phoma Xylostei** Cooke et Harkn. in Grev. 1881, p. 82. — Sparsa, punctiformis; peritheciis atris, subprominulis; sporulis ellipticis, continuis, hyalinis, 6 ≃ 3. 405

Hab. in ramis Loniceræ hispidulæ, in California, regione Americæ borealis.

27. **Phoma minutula** Sacc. Mich. II. p. 92. — Peritheciis corticolis, tectis sparsis, globoso-papillatis, $^1/_8$ mill. diam., contextu minute parenchymatico, ochraceo-fuligineo; sporulis botuliformibus, perexiguis, 4 ≃ 1, basidiis bacillaribus, 5–6 μ. long., suffultis. 406

Hab. in ramulis corticatis Loniceræ Xylostei, pr. Rouen in Gallia (Malbranche), et in sarmentis vivis Loniceræ cujusdam cultæ in Argentina (Spegazzini). — In hac postrema perithecia 100–110 μ. diam.; sporulæ inæqualiter ovoideæ, non vel 1-guttatæ, 5 ≃ 1,5.

28. **Phoma Loniceræ** Cooke in Grevillea. — Sparsa, erumpens; peritheciis prominulis, atris, penitus tectis; sporulis ellipticis, binucleatis, hyalinis, 10–12 ≃ 3–4. 407

Hab. in ramis Loniceræ, New Jersey in Amer. bor. (Ellis).

29. **Phoma Mariæ** Clin. in Peck. Rep. on the St. Mus. N. Y. — Peritheciis minutis, punctiformibus v. subhysterinis, epidermide tectis, nigris; sporulis oblongo-ellipsoideis, subinde acutis, hyalinis, biguttatis, 8 μ. longis. 408

Hab. in ramis decorticatis Loniceræ flavæ et tartaricæ, Buffalo in America boreali.

30. **Phoma Weigeliæ** Speg. Mich. I. p. 481. — Peritheciis lenticularibus, 110–120 μ. diam., sub epidermide nidulantibus, carbonaceis, ostiolo papillato-conoideo acutiusculo donatis; sporulis minutis, hyalino-chlorinis, 3–5 ≃ 1–2, ellipticis vel ovoideis, obtusis, non guttulatis. 409

Hab. in ramulis emortuis Weigeliæ roseæ, Conegliano in Italia boreali.

31. **Phoma peduncularis** Sacc. *Gerulajacta striæformis* Preuss. F. Hoyersw. n. 316. — Peritheciis membranaceis, hemisphæricis, atris; 410

nucleo albo; basidiis clavatis, albis, curvatis; sporulis oblongis, albis.

Hab. in pedunculis Sambuci, Hoyerswerda.

32. **Phoma sambucella** Sacc. Cfr. Syll. I. p. 633 ad n. 98. — Peri- 411
thecis subcutaneo-erumpentibus, globoso-depressis, gregariis; sporulis ovato-oblongis, 8 ≃ 3-4, biguttatis, hyalinis.

Hab. in ramis emortuis Sambuci racemosæ et nigræ, in Germania, Italia, Gallia. — Spermogonium *Diaporthes spiculosæ.*

33. **Phoma sambucina** Sacc. Mich. II. p. 97. — Peritheciis gregariis, 412
epidermide initio velatis, globoso-depressis v. oblongis, griseo-fuscis; sporulis oblongo-fusoideis, 8-10 ≃ 3, 2-guttatis, hyalinis; basidiis bacillaribus, 15 ≃ 1, suffultis.

Hab. in ramulis tenellis Sambuci nigræ, Rouen in Gallia (Letendre). — Spermogonium *Diaporthes.*

34. **Phoma vicina** Desm. Exs. Ser. III. n. 352 (verisimiliter, sed exempl. 413
non vidi). Mich. I. p. 525. — Peritheciis punctiformibus, globoso-ellipsoideis, 100-150 ≃ 50-60, minute pertusis, basi ligno infossis; sporulis oblongis, curvulis, 5 ≃ 2, eguttulatis, hyalinis.

Hab. in ramis decorticatis Sambuci nigræ, in Gallia. — F. **Platani** Sacc. in Rev. Myc. III. 6, p. 28. Sporulis ovato-oblongis, 4 ≃ 1-7; basidiis brevissimis suffultis, nubilosis, hyalinis. In ramulis Platani, in Algeria (Trabut). — An *Aposphæria?*

35. **Phoma Landeghemiæ** (Nits.) Sacc. — Peritheciis exiguis, cortici 414
interiori subinfossis, globoso-conicis, pertusis; sporulis fusoideis, subrectis, 8 ≃ 2,5, hyalinis; basidiis cæspitosis, breviusculis.

Hab. in ramis corticatis Philadelphi coronarii, in Germania. — Spermogonium *Diaporthes Landeghemiæ.* Cfr. Syll. I. pag. 683.

36. **Phoma rhamnicola** Cooke et Hark. in Grevillea n. 64. — Gre- 415
garia, minuta, punctiformis; peritheciis tectis, subglobosis, atris ostiolis erumpentibus; sporulis oblongis, continuis, hyalinis, 7,5 ≃ 3.

Hab. in ramis Rhamni californicæ, in California.

37. **Phoma Evonymi** Sacc. *Gibberellæ Evonymi* Sperm. Fuck. Symb. 416
p. 167. — Peritheciis minutissimis in acervulos subglobosos, 2 mill. diam., dense congestis, ovoideis, nitidis, atro-fuscis; sporulis minimis, cylindraceis, oscillantibus.

Hab. in ramis corticatis Evonymi europæi, in Rhenogovia. — An potius *Dothiorellæ* species?

38. **Phoma ramealis** Desm. 18 Not. p. 7. — Peritheciis innatis, mi- 417
nutis, numerosis, dense approximatis, globoso-depressis, $^1/_4$-$^1/_5$ mill.

diam., nigris, opacis, epidermide tectis; ostiolis papillatis: nucleo gelatinoso, albido; sporulis oblongis, utrinque obtusis, 10 ≃ 2,5–3, 2-guttulatis.

Hab. in ramis exsiccatis Evonymi europæi et latifolii in Gallia, Italia boreali, Austria. — F. **Rhamni Alaterni,** in Gallia meridionali.

39. **Phoma lirelloides** Sacc. et Penz. Mich. II. p. 616. — Peritheciis 418
subparallelis, oblongis, subhysterioideis, minutis, cortice secedente liberatis, basi ligno infossis; sporulis teretiusculis, curvulis, utrinque rotundatis, 5 ≃ 2, hyalinis; basidiis sporula brevioribus, clavulatis, hyalinis.

Hab. in ramis dein decorticatis Evonymi japonici, prope Rouen in Gallia (Letendre).

40. **Phoma foveolaris** (Fr.) Sacc. Mich. II. p. 94. *Sphæria foveola-* 419
ris Fr. S. M. II. p. 499. — Gregaria; peritheciis innatis, minimis, depressis, albido-farctis, collabascendo concavis, foveolatis; sporulis ovatis obovatisve, 2-guttulatis, 6 ≃ 3, hyalinis.

Hab. ad ramos recenter emortuos Evonymi europæi, in Germania, Gallia, Italia. — Adeo conferta, ut ramulos subinde crustulæ tenuissimæ instar nigræ obducit, in quorum superficie efficit foveolas valde excavatas, nigras, nitidulas, unde facile dignoscitur.

41. **Phoma berberina** Sacc. et Roum. Mich. II. p. 336. — Peritheciis 420
sparsis vel laxe gregariis, subcutaneis, globoso-depressis, nigro-griseis; sporulis fusoideis, 6–7 ≃ 2–2½, biguttulatis, hyalinis.

Hab. in ramulis Berberidis vulgaris, Tarbes in Gallia. — Spermogonium *Diaporthes.*

42. **Phoma detrusa** Sacc. Mich. II. p. 96. — Peritheciis cortice ve- 421
latis, sparsis stromateque nigricante conjunctis, globulosis, contextu melleo; sporulis fusoideis, 8–10 ≃ 2½, 2-guttulatis, hyalinis; basidiis bacillaribus, 20 ≃ 1, suffultis.

Hab. in ramis Berberidis vulgaris, socia *Cucurbitaria*, Rouen in Gallia (Letendre). — Spermogonium *Diaporthes.*

43. **Phoma Berberidis** Sacc. Mich. I. p. 259. — Peritheciis subsuperfi- 422
cialibus, aggregatis, globoso-conoideis, vertice breve setulosis, verruculosis, nigris; sporulis oblongis, tenuissimis, 3–4 ≃ ½–¾, hyalinis, in basidiis ramulosis acrogenis.

Hab. in ramis emortuis Berberidis vulgaris, Selva, Padova in Ital. bor., socia *Cucurbitaria Berberidis*, cujus sistit spermogonium. Cfr. Sacc. Myc. Ven. Spec. t. XII. f. 29. — An potius *Pyrenochætæ* species?

44. **Phoma melaleuca** B. et C. North Am. F. n. 387. — Subcuticularis nitida e macula albida orirunda; sporulis oblongis, 7,5–10 μ. longis. 423

Hab. in (?) ramis Berberidis, Magnoliæ, Araliæ, in America boreali.

45. **Phoma Pini** C. et Harkn. in Grevillea 1881, pag. 81. — Sparsa, tecta; perithecciis minimis, subglobosis, tectis: sporulis ellipticis, hyalinis, continuis, 6,5 ≈ 3. 424

Hab. in cortice Coniferarum, in California.

46. **Phoma Pittospori** Cooke et Harkn. in Grevillea, n. 64. — Gregaria sparsave, parvula; perithecciis atris subglobosis tectis, demum sursum erumpentibus; sporulis ellipticis, continuis, hyalinis, 8 ≈ 2,5. 425

Hab. in ramis Pittospori in California, socia *Diplodia Pittospori.*

47. **Phoma pithya** Sacc. Mich. I. p. 126. — Perithecciis sparsis, subcutaneis, dein semierumpentibus, globulosis, vix papillatis, 1/3 mill. diam., contextu celluloso, solidiusculo, fuligineo: sporulis fusoideis plerumque rectis, 9–11 ≈ 2 1/2–3 1/2, initio 2-guttulatis, hyalinis. 426

Hab. in ramulis corticatis Pini silvestris, in horto botanico Berolinensi (P. Magnus). — Verisimiliter status spermogonicus *Diaporthes* (Tetrast.) *pithyæ* Sacc.

48. **Phoma Libertiana** Speg. et Roum. Mich. II. p. 338. — Perithecciis gregariis, erumpentibus, globoso-depressis, papillulatis, contextu parenchymatico rufescente; sporulis ovoideis, utrinque obtusiusculis, 6–6 1/2 ≈ 3, 2-guttulatis, hyalinis. 427

Hab. in ramulis corticatis Abietis, in Gallia et Germania. — Spermogonium, ut videtur, *Cenangii Pinastri.*

49. **Phoma micromegala** (B. et C.) Sacc. *Sphæropsis micromegala* B. et C. North Am. F. n. 410 (bis). — Perithecciis hysteriiformibus, minutis, nitidis, plagulas lineares dealbatas generantibus; sporulis ellipticis, hyalinis, curvulis, 25 ≈ 11. 428

Hab. in radicibus denudatis Pinorum, Alabama in America boreali (Beaumont).

50. **Phoma macrosperma** (Karst.) Sacc. *Sphæronæma macrospermum* Karst. Helw. 1884, pag. 17. — Perithecciis sparsis, cortici innatis, rotundis, atris, glabris, pertusis, 1/3–1/2 mill. diam., globulo difformi dilutissime flavescente; sporulis ovoideo-ellipsoideis v. ellipsoideis, simplicibus, hyalinis, 44–52 ≈ 22–23. 429

Hab. in ramulis emortuis Abietis excelsæ, Mustiala in Fennia. — Ob sporulas magnas a genere desciscit.

51. **Phoma excelsa** Karst. Hedw. 1884, p. 19. — Peritheciis sparsis vel subgregariis, sed per peridermium erumpentibus, rotundatis, subastomis, atris, primitus sæpe fusco-furfuraceis, 0,3–0,5 mill. diam.; sporulis ovoideis vel ellipsoideo-oblongatis, uniguttulatis, hyalinis, 15–24 ≃ 9. 430

Hab. in ramis emortuis Piceæ excelsæ, ad Mustiala in Fennia.

52. **Phoma piceana** Karst. Hedw. 1884, pag. 18. — Peritheciis sparsis, sed epidermidem semierumpentibus, vulgo rotundatis, subastomis vel vix papillatis, subtilissime punctulatis, atris, 500–800 μ. diam.; sporulis elongatis, curvulis, eguttulatis, hyalinis, 5 ≃ 1. 431

Hab. ad ramulos emortuos Piceæ excelsæ, ad Mustiala in Fennia.

53. **Phoma allostoma** (Lév.) Sacc. *Sphæropsis allostoma* Lév. Ann. Sc. Nat. 1846, p. 294. — Peritheciis sparsis, innatis, demum erumpentibus, subglobosis, rudibus, rigidis, intus sordide albis; ostiolis papillatis vel conicis; sporulis cylindricis, elliptico-linearibus, pellucidis, minutis. 432

Hab. ad corticem Taxi baccatæ, in horto botanico Parisiensi.

54. **Phoma padina** Sacc. Syll. I. p. 619. — Peritheciis subtectis, globoso-lenticularibus, sparsis; sporulis fusoideis, 9–11 ≃ 3, hyalinis. 433

Hab. in ramis corticatis Pruni Padi, in Gallia et Germania. — Spermogonium *Diaporthes decorticantis* (Lib.) Sacc. et Roum.

55. **Phoma persicina** (B. et C.) Sacc. *Sphæropsis persicina* B. et C. — Peritheciis minutis, nitidis, ocellatis, epidermide centro albo-punctata tectis; sporulis oblongis breve pedicellatis, 1-2-nucleatis, 15 ≃ 5–7. 434

Hab. in ramis Persicæ, Pensylvania, in Amer. bor.

56. **Phoma persicaria** Schulz. et Sacc. Mic. Slav. n. 47. Schulz. III. Fung. Slav. n. 682. — Peritheciis subgregariis, globosis, peridermio tectis, 0,2–0,25 mill. diam.; ostiolo obtuso, vix corticem perforante; nucleo albo; sporulis exiguis, ellipticis, hyalinis, 4–6 μ. longis; basidiis obsoletis. 435

Hab. in ramis corticatis Persicæ vulgaris, pr. Vinkovce.

57. **Phoma Persicæ** Sacc. Mich. I. p. 526. — Peritheciis laxe gregariis, globoso-lenticularibus, $^1/_6$–$^1/_5$ mill. diam., epidermide vix tumidula velatis; sporulis oblongo-ovoideis, 8 ≃ 3, 2-guttulatis, hyalinis; basidiis æquilongis, cylindro-conicis, suffultis. 436

Hab. in ramulis nondum exsiccatis Persicæ, Saintes in Gallia (Brunaud).

58. **Phoma Potonieana** Sacc. Mich. I. p. 126. — Peritheciis gregariis v. hinc inde in cæspitulos parvos aggregatis, erumpentibus, globulosis vix papillatis, aterrimis, contextu celluloso-fuligineo; sporulis ovato-ellipsoideis, 8–10 ≃ 4, hyalinis, e strato proligero immediate oriundis. 437

Hab. in ramulis corticatis Drupaceæ? in Thiergarten Berolini in Germania (H. Potoniè in herb. P. Magnus).

59. **Phoma leucostoma** Lév. Ann. Sc. Nat. 1846, pag. 282. — Peritheciis sparsis vel approximatis, innatis, compressis, intus nigris, receptaculo corticali immersis; ostiolis papillatis, pertusis, discum album perforantibus; sporulis perexiguis, curvulis, utrinque obtusis. 438

Hab. ad ramos Spirææ hypericifoliæ, in hortis Parisiensibus.

60. **Phoma Sorbariæ** Sacc. Cfr. Syll. II. p. 644. — Peritheciis gregariis, subcutaneis, globoso-depressis; sporulis fusoideis, biguttulatis, hyalinis, 7–9 ≃ 2,5; basidiis filiformibus, 17–20 ≃ 1. 439

Hab. in trunculis emortuis Spirææ (Sorbariæ) sorbifoliæ, in Germania. — Spermogonium *Diaporthes Sorbariæ*.

61. **Phoma Mali** Schulz. et Sacc. Micr. Slav. n. 42. Schulz. Ill. Fung. Slav. n. 783. — Peritheciis gregariis subcutaneis, depressis; ostiolo vix erumpente; sporulis oblongo-fusoideis, 8 μ. long., 2-guttatis, basidiis duplo longioribus, filiformibus, suffultis. 440

Hab. in ramis Piri Mali, pr. Vinkovce. — Status spermogonicus probabiliter *Diaporthes ambiguæ*. An eadem ac *Phoma ambigua* (Nits.) Sacc.

62. **Phoma ambigua** (Nits.) Sacc. Mich. I. p. 520. — Peritheciis gregariis subcutaneis, compressis, atro-olivaceis; sporulis fusoideis, 8 ≃ 3; basidiis filiformibus, 18 ≃ 1. 441

Hab. in ramulis Piri communis, in Gallia. — Spermogonium *Diaporthis ambiguæ* Nits. (Syll. I. p. 669).

63. **Phoma enteroleuca** Sacc. Mich. I. p. 358. — Peritheciis hinc inde acervulatis, peridermio tectis, dein erumpentibus, globulosis, $^1/_4$ mill. diam., vix papillatis, diu nucleo albo farctis; sporulis ovoideo-oblongis, 4 ≃ $1^1/_2$, eguttulatis, hyalinis (basidiis nullis visis). 442

Hab. in ramulis Piri et Syringæ, in Gallia et Germania.

64. **Phoma Cydoniæ** Sacc. et Schulz. Micr. Slav. n. 49. Schulz. Ill. Fung. Slav. n. 89, 91 et 94. — Peritheciis subgregariis, globoso-depressis, ostiolo obtuso vix erumpente, subinde liberatis conicis- 443

que; sporulis ellipsoideo-oblongis, 2-guttatis, hyalinis, 8-9 μ. long.; basidiis initio breviusculis, dein liberatis filiformi-uncinatis.

Hab. in ramis corticatis vel denique decorticatis Cydoniæ vulgaris, pr. Vinkovce.

65. **Phoma Vepris** Sacc. Cfr. Syll. I. p. 668. — Peritheciis gregariis, epidermide initio velatis, globoso-depressis; sporulis fusoideis, 6 ≃ 1,5, biguttulatis, brevissime stipitatis. 444

Hab. in ramis corticatis Rubi fruticosi, in Germania, Italia, Gallia. — Spermogonium *Diaporthes Vepris.*

66. **Phoma Müller**i Cooke in Grev. — Punctiformis, sparsa; peritheciis minutis, tectis; ostiolis brevibus, cuticulam perforantibus; sporulis anguste ellipsoideis, 2-guttulatis, hyalinis, 10-12 ≃ 3. 445

Hab. in sarmentis Rubi, Eastbourne in Britannia (C. J. Müller).

67. **Phoma Corticis** Fuck. Symb. Myc. p. 378. — Peritheciis sparsis, minutis, tectis, demum per epidermidem erumpentibus, globosis, perforatis, atris, nucleo albo; sporulis cylindraceis, 1-4-guttulatis, rectis, 22 ≃ 3, hyalinis. 446

Hab. in sarmentis vivis Rubi fruticosi, prope Œstrich in Germania.

68. **Phoma Ruborum** West. Exs. n. 1234, Kickx Fl. Fl. I. p. 436. — Peritheciis innatis, dein superficialibus, convexis, subdimidiatis, brunneo-nitidulis, subastomis, epidermide sæpe longitudinaliter fissa tectis; sporulis cylindraceis, obtusis, rectis curvulisve, obsolete guttulatis. 447

Hab. in sarmentis Ruborum, in Belgio frequens.

69. **Phoma Rosæ** Schulz. et Sacc. Micr. Slav. n. 46 (sub nomine *Phomæ Rosarum*). Schulz. III. Fung. Slav. n. 708. — Peritheciis epidermide prominula tectis, globoso-depressis, intus pallidis, 0,5-1 mill. diam.; ostiolo vix erumpente: sporulis ovatis v. fusoideis, 2-guttatis, hyalinis, 6-10 μ. long.; basidiis fasciculatis filiformibus, sporulâ duplo et plus longioribus. 448

Hab. in ramis Rosarum cultarum, pr. Vinkovce. — Est status spermogon. *Diaporthes.* An eadem sit ac *Ph. Rosarum* Mont, non liquet.

70. **Phoma aculeorum** Sacc. Mich. I. p. 358. — Peritheciis gregariis, punctiformibus, $^1/_{10}$–$^1/_8$ mill. diam., conoideis, nigris, initio epidermide velatis; sporulis cylindraceo-oblongis, sæpe curvulis, 3-4 ≃ 1, obsolete 2-guttulatis, hyalinis; basidiis fusoideis, crassiusculis, suffultis. 449

Hab. in aculeis languidis Rosarum, prope Alençon in Gallia (C. C. Gillet).

71. **Phoma pusilla** Schulz. et Sacc. Micr. Slav. n. 48. Schulz. III. Fung. Slav. n. 691. — Peritheciis cortice innatis, sparsis, globoso-depressis, perexiguis, 0,1-0,2 mill. lat., intus pallidis; ostiolo obsoleto, obtuso; sporulis oblongis, 4-5 μ. long., hyalinis, rectis; basidiis filiformibus, triplo longioribus, fasciculatis, suffultis. 450

Hab. in ramis Rosæ caninæ, prope Vinkovce.

72. **Phoma Rosarum** Dur. et Mont. Alg. 604. Syll. n. 979. — Peritheciis minutulis, innato-prominulis, epidermide integra aut tandem stellatim fissa tectis, atro-fuscis, intus niveis; sporulis innumeris, lineari-oblongis, hyalinis, utroque fine 1-guttatis. 451

Hab. in ramis emortuis Rosæ sempervirentis, Alger (Durieu).

73. **Phoma sepincola** (Kickx) Sacc. *Sphæropsis sepincola* Kickx Fl. Fl. I. p. 400. *Sphæria sepincola* Desm. non Fr. — Peritheciis tectis, minutis, globulosis v. sublenticularibus, demum epidermidem perforantibus, atro-opacis, pertusis; nucleo albido; sporulis elliptico-cylindraceis, obtusis, interdum lenissime curvis. 452

Hab. in ramulis emortuis Rosarum, in Belgio.

74. **Phoma incarcerata** (Nits.) Sacc. Mich. II. p. 95. — Peritheciis gregariis minutis, globoso-depressis, subcutaneis; sporulis fusoideis, 8 ≃ 2, 2-guttulatis; basidiis arcuatis, 20 ≃ 1, suffultis. 453

Hab. in ramis corticatis Rosæ caninæ et Banksianæ, in Germania et Italia. — *Diaporthes incarcerata* (B. et Br.) spermogonium.

75. **Phoma Tandilensis** Speg. F. Arg. Pug. IV. n. 279. — Peritheciis hemisphærico-lenticularibus, 100-120 μ. d., primo tectis, dein erumpentibus, v. cortice secedente liberis, atris, crassiuscule membranaceis, contextu indistincte parenchymatico, fuligineo; ostiolo minuto pertusis, glabris, vix basi hyphis gracilibus, 3 μ. crass., repentibus, ornatis; sporulis cylindraceis, utrinque obtusiuscule rotundatis, 8-10 ≃ 2, grosse 2-guttulatis, medio sæpe subcoarctatis, granuloso-farctis, hyalinis. 454

Hab. in caulibus foliisque emortuis Margyricarpi setosi, in arenosis montuosis «Sierra del Tandil» in Argentina.

76. **Phoma fusigera** (B. et C.) Sacc. *Sphæropsis fusigera* B. et C. North Am. Fungi n. 413 (bis). — Peritheciis sparsis, apice granuloso-lateritiis; sporulis subfusiformibus, enucleatis, inæquilateralibus, 35-38 μ. longis. 455

Hab. in ramis Mespili, in Pensylvania, regione Americæ borealis (Michener).

77. **Phoma semiimmersa** Sacc. Mich. I. p. 97. — Peritheciis sparsis, depressis, minutis, initio velatis; sporulis fusoideis, 12–14 ≃ 3, 2-guttatis, hyalinis; basidiis bacillaribus, 25 ≃ 2, suffultis. 456

Hab. in ramis Cratægi Oxyacanthæ, Rouen in Gallia (Letendre). — Spermogonium *Diaporthes*.

78. **Phoma Cratægi** Sacc. Mich. I. p. 248. — Peritheciis erumpentibus, subglobosis irregularibusque, nucleo albo; sporulis oblongis, minutissimis, 4 ≃ 1,5, hyalinis. 457

Hab. in ramis corticatis Cratægi Oxyacanthæ, Vittorio in Italia boreali, socia *Otthia Cratægi*, cujus videtur spermogonium.

79. **Phoma japonica** Sacc. Mich. I. p. 521, II. p. 95. — Peritheciis velatis, minutis, nigris, globoso-depressis vel oblongis, quandoque zona nigra plagulas limitante circumdatis; sporulis fusoideis, 6–10 ≃ 2-3, 2-guttulatis; basidiis uncinatis, 25 ≃ 1, suffultis. 458

Hab. in ramis Kerriæ japonicæ, in Italia et Gallia. — Spermogonium *Diaporthes japonicæ*.

80. **Phoma Granati** Sacc. F. Ven. Ser. V. p. 200. — Peritheciis gregariis, lenticulari-globulosis, membranaceis, contextu parenchymatico fuligineo, $^1/_{10}$ mill. diam.; ostiolo minuto impresso; sporulis oblongo-subfusoideis, 15 ≃ 5, quandoque curvulis, hyalinis, sterigmatibus filiformibus, æquilongis, fultis. 459

Hab. in calycibus, petalis, rarius in foliis exsiccatis Punicæ Granati, Selva (Treviso) in Italia bor.

81. **Phoma Eucalypti** Cooke et Kickx. Grev. 1881. p. 82. — Erumpens, gregaria; peritheciis atris, semiliberis, maculas punctatas formantibus; sporulis elongato-ellipticis, hyalinis, continuis, 10–12 ≃ 2,8. 460

Hab. in cortice interiore Eucalypti Globuli, in California. 461

82. **Phoma eucalyptica** (Thüm.) Sacc. *Coniothyrium Eucalypti* Thüm. Contr. Myc. Lus. n. 341. — Peritheciis numerosissimis, dense gregariis, pro ratione magnis, epidermide primo tectis, demum irregulariter disrumpentibus emersisve, membranaceis, nigris, subhemisphæricis demum applanatis; sporulis numerosis, cylindraceis, rectis vel interdum minime arcuatis, utrinque rotundatis, simplicibus, enucleatis, hyalinis, 3-3,5 ≃ 1,5.

Hab. in ramis emortuis Eucalypti Globuli, Pinhal de Valle de Canas pr. Coimbra in Lusitania (Moller).

83. **Phoma rimiseda** Sacc. Mich. II. p. 380 (sub nom. *Ph. rimicola*). 462

— Peritheciis longitudinaliter dense aggregatis, e corticis rimis erumpentibus, globosis, papillatis, $^1/_2$ mill. diam., nigris intus pallidis; contextu parenchymatico solido, fuligineo; sporulis oblongo-fusoideis, 18–21 ≃ $4^1/_2$–$6^1/_2$, utrinque acutiusculis, varie guttulatis nubilosisque, hyalinis; basidiis bacillaribus, dense fasciculatis, 20 ≃ 2, suffultis.

Hab. in rimis ramorum corticatorum Vitis viniferæ, Padova in Italia boreali (Bizzozero). — A ceteris *Phomæ* et *Sphæropsidis* speciebus in Thüm. «Pilz. d. Weinst.» descriptis sporulis multo majoribus dignoscenda.

84. **Phoma viticola** Sacc. Mich. II. p. 92. — Peritheciis sparsis, epidermide velatis, globosis, papillulatis, vix $^1/_6$ mill. diam.; contextu laxe parenchymatico fuligineo; sporulis ellipsoideis, subinæquilateralibus, 7 ≃ 4, eguttulatis, hyalinis; basidiis filiformibus, subæquantibus, suffultis. 463

Hab. in sarmentis Vitis viniferæ, Rouen in Gallia (Malbranche). — Ab affini *Ph. Vitis* Bon. differt sporulis duplo majoribus.

85. **Phoma Vitis** Bon. Abhandl. Myc. p. 14, Pirotta F. Vit. p. 54. — Peritheciis minutis, punctiformibus, sparsis, depresso-globulosis, nigris; ostiolo minuto, primo conico, epidermidem perforante; sporulis ovato-ellipticis, 3–3.5 ≃ 1–2, hyalinis; basidiis simplicibus, subventricosis. 464

Hab. in sarmentis Vitis viniferæ, in Italia, Germania, Austria et Britannia.

86. **Phoma longispora** (Thüm.) Cooke in Grev. *Leptothyrium longisporum* Thüm. Weinst. p. 153. — Peritheciis dense gregariis minutis, in areis dealbatis corticalibus, innato-prominulis, globoso-depressis, atris; sporulis cylindraceis, rectis curvulisve, utrinque rotundatis, hyalinis, 20 ≃ 4–4,5; basidiis fasciculatis, elongatis, rectis. 465

Hab. in sarmentis Vitis viniferæ, Parma in Italia bor. (Passerini); et Vitis æstivalis, Aiken in Carolina (Ravenel).

87. **Phoma Ampelopsidis** (C. et E.) Sacc. *Sphæropsis Ampelopsidis* C. et Ell. in Grevill. tab. 99, fig. 8. — Gregaria, tecta; peritheciis subglobosis, atris, cortice elevatis, papillatis; sporulis lanceolatis vel subellipticis, utrinque rotundatis, hyalinis, 30–35 ≃ 12. 466

Hab. in ramis Ampelopsidis quinquefoliæ, New Yersey, in Amer. bor.

88. **Phoma ampelina** B. et C. North Amer. F. n. 380. — Subcuticularis, hysteriiformis: sporulis fusiformibus, 12 μ. longis. 467

Hab. in sarmentis Vitis, in Pensylvania, regione Amer. bor. (Michener). — Pustulæ corticales hysteriiformi-tumidulæ.

89. **Phoma Cookei** Pirotta Vit. pag. 55, tab. XII. fig. 21, *Ph. Vitis* Cooke nec Bonord. — Peritheciis minutis, sparsis, punctiformibus, nigris, globosis subglobosisve, primum epidermide tectis, dein erumpentibus; basidiis filiformibus, stipatis, flexuosis, hyalinis; sporulis baculiformibus, curvatis, apicibus obtusissimis, simplicibus, hyalinis, 13 ≃ 4,5 μ. 468

Hab. ad ramulos Vitis viniferæ prope nodos, in Britannia.

90. **Phoma confluens** B. et C. North Amer. Fungi n. 383. — Maculis elevatis marginatis; peritheciis nigris confluentibus; sporulis brevibus, oblongis, 5 μ. longis. 469

Hab. in sarmentis Vitis, in America boreali.

91. **Phoma pallens** B. et C. North Amer. Fungi n. 381. — Subcuticularis, hysteriiformis; sporulis oblongo-fusoideis, utrinque apiculatis sub-æqualibus, 5-7,5 μ. long. 470

Hab. in ramis tenellis dealbatis Vitis, Ampelopsidis, nec non Celastri scandentis, in Pensylvania, regione Amer. bor.

92. **Phoma Peckiana** (Thüm.) Sacc., *Sphæropsis Peckiana* Thüm. Weinst. Pils. p. 149. — Peritheciis gregariis, primo epidermide tectis, demum erumpentibus, liberis, conico-globosis, papillatis, mediis, nigris; sporulis non pedicillatis, longe ellipsoideis vel oblongo-ovatis, utrinque obtuso-rotundatis, medio vel non minime inflexis, simplicibus, uni- vel trinucleatis, nucleis magnis, 30 ≃ 10 μ., hyalinis. 471

Hab. in sarmentis emortuis Vitis Labruscæ, Albany N. Y. in America septentr. (Peck).

93. **Phoma nidulans** Grogn. Sacc. Mich. II. pag. 341. — Peritheciis hinc inde approximatis, oblongis, erumpentibus, intus griseis; sporulis fusoideis, 8-10 ≃ 2½, biguttatis, hyalinis; basidiis filiformibus, 25-30 ≃ 1½, fasciculatis, e basi proligera lutescenti oriundis, suffultis. 472

Hab. in ramis corticatis Ampelopsidis hederaceæ, Pau in Gallia. — Spermogonium *Diaporthes*.

94. **Phoma Edgworthiæ** Sacc. Mich. II. p. 538. — Peritheciis gregariis subcutaneis, sæpe linea nigra, tortuosa, perithecia pauca, insulata cingente; sporulis ovato-fusoideis, 7-8 ≃ 2,5, 2-guttulatis, hyalinis; basidiis filiformibus, 30 ≃ 1,5. 473

Hab. in ramis putrescentibus Edgworthiæ chrysanthæ, Padova (Bizzozero).

95. **Phoma insculpta** (Roum.) Sacc., *Diplodia insculpta* Roum. Fung. Gall. n. 22. — Peritheciis ligno basi infossis, gregariis, oblongis; sporulis fusoideis, 2-guttulatis, 8 ≃ 2; basidiis uncinatis, 24 ≃ 1, fultis. 474

Hab. in ramulis decorticatis Daphnes Gnidii, Collioure in Gallia merid. (Roumeguére). — Spermogonium *Diaporthes.*

96. **Phoma diplodioides** Sacc. Mich. I. p. 522. — Peritheciis subcutaneo-erumpentibus, sparsis vel hinc inde aggregatis, globoso-conoideis, ¼ mill. d., papillatis, nigris; sporulis fusoideis, utrinque obtusiusculis, 12-15 ≃ 3-3½, hyalinis; basidiis brevissimis, linearibus, suffultis. 475

Hab. in ramis corticatis Æsculi Hippocastani, Rouen in Gallia (Letendre).

97. **Phoma coneglanensis** Sacc. Mich. II. p. 340. — Peritheciis subcutaneis, gregariis, oblongis; sporulis oblongo-fusoideis, 7-8 ≃ 3, biguttulatis, hyalinis; basidiis acicularibus, 15 ≃ 3, suffultis. 476

Hab. in petiolis ramulisque Æsculi Hippocastani, in Italia et Gallia. — Spermogonium *Diaporthes.*

98. **Phoma controversa** (Nits.) Sacc. Mich. II. p. 616. — Peritheciis gregariis, subtectis, intus griseis; sporulis fusoideis, 7-8 ≃ 2-2¼, hyalinis, 2-guttulatis; basidiis curvulis, 12 ≃ 1. 477

Hab. in ramulis Fraxini excelsioris, in Gallia. — Spermogonium *Diaporthes.*

99. **Phoma fraxinea** Sacc. Mich. I. p. 526. — Peritheciis gregariis, subcutaneo-erumpentibus, globoso-depressis, 110 μ. diam., pertusis; contextu parenchymatico ochraceo-fusco; sporulis ovoideis, 8 ≃ 4, 1-2-guttatis, hyalinis. 478

Hab. in ramis Fraxini Orni, in Gallia et Germania.

100. **Phoma minima** Schulz. et Sacc. Micr. Slav. n. 45, Schulz. Ill. Fung. n. 805. — Peritheciis laxe gregariis, subcutaneo-erumpentibus, atris, 150 μ. diam., apice obtusis; sporulis tereti-oblongis, utrinque obtusis, 2-guttatis, 4-5 μ. longis, hyalinis; basidiis filiformibus, sporulâ quadruplâ longioribus. 479

Hab. in ramis corticatis Fraxini excelsioris, prope Vinkovce in Slavonia.

101. **Phoma domestica** Sacc. Mich. II. p. 90. — Peritheciis epidermide velatis, gregariis, subhemisphæricis, ⅕ mill. d., pertusis; sporulis ovoideo-oblongis, 5 ≃ 2, hyalinis; basidiis filiformibus, 3-4 μ. long., suffultis. 480

Hab. in ramulis Jasmini officinalis, Saintes in Gallia (Brunaud).

102. **Phoma depressa** (Lév.) Sacc. Mich. II. 94, *Sphæropsis depressa* Lév., *Phoma resecans* Sacc. Mich. I. p. 257. — Peritheciis subcutaneis, dein erumpentibus, globosis oblongisve, atris, copiosis, demque depressis, poro angusto leniterque prominulo pertusis; sporulis 10 ≃ 2,5–3, biguttatis; basidiis filiformi-uncinatis, 20–28 ≃ 1,5. 481

Hab. in ramis corticatis emortuis Syringæ vulgaris, in Gallia, Belgio et Italia.

103. **Phoma Syringæ** (Pr.) Sacc., *Gerulajacta Syringæ* Pr. Fung. Hoyersw. n. 317. — Peritheciis cortici innatis, corneis, subpapillatis, atris; nucleo albo; basidiis filiformibus, curvatis albis; sporulis clavato-obovatis, albis. 482

Hab. in ramulis Syringæ sinensis, in hortis Hoyerswerd.

104. **Phoma syringina** Sacc. Cfr. Fuck. Symb. App. I. pag. 320. — Peritheciis sparsis, sub epidermide nidulantibus, minutis; sporulis oblongo-lanceolatis, continuis, biguttulatis, hyalinis, 8 ≃ 3. 483

Hab. in ramis Syringæ vulgaris, socia *Diaporthe nodosa*, cujus est spermogonium, in Rhenogovia.

105. **Phoma syringica** Thüm. Pilzfl. Sibir. n. 789. — Peritheciis sparsis, mediis, hemisphærico-subconicis, prominentibus, obsolete ostiolatis, nigris; sporulis ellipsoideis, utrinque rotundatis, raro ovoideis, simplicibus, enucleatis, dilute fuligineis, 4 ≃ 2. 484

Hab. in ramulis tenuibus aridis Syringæ vulgaris, in hortis prope Minussinsk in Sibiria asiatica. — A *Phoma depressa* seu *resecante* Sacc. in Mich. I. p. 257: sporulis duplo minoribus bene distinguenda. An *Phoma Syringæ* B. et C. in Peck Rep. on St. Mus. N. Y. (nomen) in ramulis Syringæ in Amer. bor. huc spectet, non liquet.

106. **Phoma laurina** Thüm. Contr. Fung. Lit. n. 164, tab. I. fig. 10. — Peritheciis gregariis, magnis, prominulis, primo tectis, demum liberis, orbiculatis, depresso-globosis, atris; sporulis longe-ellipticis, utrinque acutato-rotundatis, non vel binucleatis, simplicibus, 4–6 ≃ 1,5–2, hyalinis. 485

Hab. ad ramulos emortuos Lauri nobilis, Gorizia in Italia boreali.

107. **Phoma laurella** Sacc. Mich. II. p. 616 (sub nom. *Phoma nobilis*). — Peritheciis gregariis, globuloso-depressis, suboblongis, subgriseis, tectis; sporulis oblongo-fusoideis, rectiusculis, 8–10 ≃ 3–4, hyalinis; basidiis bacillaribus, 8 ≃ 1,5. 486

Hab. in ramis corticatis Lauri nobilis, Saintes in Gallia (Brunaud). — Spermogonium *Diaporthes*.

108. **Phoma dolichopus** Penz. Mich. II. p. 427. — Peritheciis sparsis, hypodermeis, demum erumpentibus, epidermide cinctis, sphæroideis, vix mamillatis, contextu filamentoso, brunneolis, 250–280 μ. d.; sporulis minutis, ellipsoideis, 3–3.5 = 2–2.5, hyalinis, eguttulatis; basidiis longissimis, filiformibus, flexuosis, fasciculatis, 30–35 = 1, 5–2, hyalinis. 487

Hab. in ramulis vivis, corticatis Citri Limonum, in horto botanico Patavino.

109. **Phoma densipes** Penz. et Sacc. F. Agrum. II. Contr. p. 14. — Peritheciis aggregatis, hypodermicis, dein prorumpentibus, subglobosis, atro-brunneis; contextu parenchymatico, 210–240; ostiolo late aperto; basidiis dense congregatis, simplicibus, cylindraceis, integris, brunneolis vel fuscescentibus, 5–10 = 2–2.5; sporulis oblongo-ellipticis, utrinque attenuatis, obtusis, eguttulatis, hyalinis, 8–10 = 3–3,5. 488

Hab. in ramulis emortuis Citri Limonum, Mortola in Italia boreali.

110. **Phoma Aurantiorum** (Rabenh.) Sacc. *Sphæropsis Aurantiorum* Rabh. Not. XXIII. in Marcucci Un. itin. 1866 (non vidi). — Sporulis minutis, oblongis, utrinque obtuse rotundatis, continuis, hyalinis. 489

Hab. in ramulis Citri Aurantii, in Italia. — Specimina sub nomine *Sphæropsidis Aurantiorum* Rabenh. in Roum. F. G. n. 90, iterum observata, ad *Gleosporium intermedium* Sacc. ducenda esse puto.

111. **Phoma Limonis** Thüm. et Bolle, Contr. Fl. mic. Lit. p. 29. — Peritheciis dense gregariis, patellæformibus, planis, immersis, minutis, nigris; sporulis minutissimis, cylindraceis, enucleatis, utrinque obtusatis, vix subrotundatis, hyalinis, 3 = 1–1,5; basidiis haud visibilibus. 490

Hab. in ramulis aridis Citri Limonum, Gradisca (Thümen), Coimbra (Moller), in Gallia (Roumeguère), Padova (Penzig).

112. **Phoma Limoniæ** Penz. Mich. II. p. 429. — Peritheciis gregariis, hypodermeis, sphæroideis, depressis, 120–140 μ. diam., atro-brunneis; contextu parenchymatico; sporulis breve ellipticis, utrinque rotundatis, 3,5–4 = 2,5–3, hyalinis, 2-guttulatis; basidiis brevissimis, 6–7 = 4–5. 491

Hab. in ramulis siccis Limoniæ australis, in frigidariis Strå in Italia boreali.

113. **Phoma iners** Penz. Mich. II. p. 428. — Peritheciis sparsis, hypodermicis, sphæroideis, demum prorumpentibus, aterrimis, 300–400 μ. diam.; contextu parenchymatico; sporulis breve ellipticis, 6–7 ≃ 3,5–4,5, hyalinis, eguttulatis, rarius biguttulatis; basidiis obsoletis vel nullis. 492

Hab. in maculis albidis ramulorum subvivorum Citri Aurantii, in horto botanico Patavino. — Nonnullis notis ad *Phyllostictam* nutat.

114. **Phoma myelocola** (Pr.) Sacc. *Sphærocista myelocola* Pr. Hoyersw. n. 308. — Peritheciis tenuibus, subglobosis, minutis, confertis, subpapillatis, fuscis, in myelostromate («?») elongato conceptis; nucleo albo, mucoso; basidiis filiformibus; sporulis fusiformibus, subcurvatis, albis; cirris albis. 493

Hab. in cortice exsiccato Citri Aurantii, in hibernaculis Hoyerswerda.

115. **Phoma scabella** Penz. Mich. II. pag. 430. — Peritheciis dense gregariis, hypodermeis, demum erumpentibus, sphæroideo-depressis, 250–300 μ. diam.; ostiolo epidermide albescente circumdato; sporulis oblongo-ellipticis, utrinque acutiusculis, biguttulatis, hyalinis, 7–9 ≃ 2,5–3,5; basidiis dense aggregatis, filiformibus, simplicibus, 25–36 ≃ 2–2,5, subarcuatis. 494

Hab. in ramulis emortuis Citrorum, Padova in Ital. bor.

116. **Phoma Citri** Sacc. Fungi Ven. novi vel critici, Ser. V. p. 294, Mich. II. p. 427. — Peritheciis sublenticularibus, majusculis, 250–350 μ. diam., depressis, vix papillatis, sæpius elongatis, immersis, demum liberis, aterrimis; sporulis elongato-ellipticis vel oblongis, utrinque obtusiusculis, hyalinis, biguttulatis, 7–8,5 ≃ 2, 5–3,5; basidiis longis, dense stipatis, 25–40 ≃ 2–3, hyalinis, guttulatis, denique uncinatis. 495

Hab. in ramis et in ligno decorticato Citrorum, in Italia boreali et Lusitania. — Spermogonium *Diaporthes.*

117. **Phoma Nerii** Speg. Mich. I. p. 482. — Stromate late ambiente, lignum extus nigrificante; peritheciis minutis, ligno corticato vel decorticato immersis, atris; sporulis ellipticis vel oblongo-ellipticis, 6–9 ≃ 3–4, 2-guttulatis, hyalinis. 496

Hab. in ramulis emortuis Nerii Oleandri, Conegliano in Ital. bor. — Spermogonium *Diaporthes.*

118. **Phoma? heteromorpha** Schulz. et Sacc. Micr. Slav. n. 44, Schulz. Ill. Fung. Slav. n. 844. — Peritheciis gregariis, subcutaneo-erumpentibus, globulosis, obtusis, $^1/_2$–$^3/_4$ mill. diam., intus pluriloculari- 497

bus (?); sporulis ellipsoideis vel suboblongis, utrinque rotundatis, 6–9 ≃ 3–4, 2-guttatis, hyalinis; basidiis obsoletis.

Hab. in ramis corticatis Nerii Oleandri, prope Vinkovce. — Totus habitus et sporulæ *Phomæ*, hinc loculi verisimiliter spurii et orti ex casuali nuclei sporigeri partitione.

119. **Phoma cymbispora** (B. et C.) Sacc., *Sphæropsis cymbispora* B. et C. North Amer. F. n. 414. — Peritheciis sparsis, vix prominulis, obtusis, epidermide cinctis; sporulis cymbæformibus, endochromate utrinque retracto, 15 μ. longis, subchlorinis. 498

Hab. in ramulis Vaccinii, New England in America bor. (Russel).

120. **Phoma affinis** Brunaud Rev. Myc. IV. pag. 225. — Peritheciis sparsis, punctiformibus, minutis, nigris, nitidis; sporulis ovoideis, 2-guttulatis, subhyalinis, 7 ≃ 2,5. 499

Hab. in ramulis emortuis Ericæ scopariæ, Saintes in Gallia.

121. **Phoma Callunæ** Karst. Hedw. 1884, p. 60. — Peritheciis subsparsis, sphæroideo-applanatis, epidermide semper tectis; ostiolo minuto, papillato, prominulo, atro, 0,2 mill. lat.; sporulis ellipsoideis, utrinque obtusissimis et rotundatis, hyalinis, eguttulatis, 12–14 ≃ 7–8. 500

Hab. ad ramos exsiccatos Callunæ vulgaris, Mustiala in Fennia.

122. **Phoma Ericæ** (Fr.?) Sacc. Mich. II. p. 336, *Sphæria Ericæ* Fr. El. II. p. 101 (?). — Peritheciis majusculis, denique superficialibus, globoso-depressis, papillulatis, nigris, tandem dilabentibus et in matrice maculam subcircularem ½ mill. d., nigricantem relinquentibus; sporulis oblongo-ovoideis, utrinque obtusiusculis, 14–15 ≃ 6–7, nubilosis, hyalinis; basidiis bacillaribus, 12–15 ≃ 1½, hyalinis, suffultis. 501

Hab. in trunco emortuo Ericæ vulgaris, Brionne in Gallia (Malbranche).

123. **Phoma obturata** (Fr.) Sacc., *Sphæria obturata* Fr. S. M. II. 495. Cfr. Syll. II. 421, Curr. Simpl. Sphær. p. 329. — Peritheciis erumpentibus, subliberis, levibus, regularibus, atris, rimis pluribus dehiscentibus, demum collabascentibus; sporulis curvulis, hyalinis, 10 μ. longis. 502

Hab. in ramulis foliisque Ericacearum, in Suecia.

124. **Phoma Rhois** Sacc. Mich. II. p. 340. — Peritheciis gregariis, subcutaneo-erumpentibus, globoso-depressis, obsolete pertusis; spo- 503

rulis, oblongo-teretiusculis, 10 ≃ 2-2¼, 2-guttulatis; basidiis filiformi-hamatis, 25 ≃ 1, suffultis, hyalinis.

Hab. in ramulis emortuis Rhois Cotini, in Gallia (Roumeguère). — Spermogonium *Diaporthes Rhois* Nits.

125. **Phoma pulchella** (B. et C.) Sacc., *Sphæropsis pulchella* B. et C. North Amer. Fungi n. 415. — Peritheciis in stromate communi circinantibus; sporulis fusiformibus, brevibus, hyalinis, trinucleatis; basidiis brevibus. 504

Hab. in ramis Rhois copallinæ, in Carolina inferiore.

126. **Phoma Nitrariæ** (Thüm.) Sacc., *Sphæropsis Nitrariæ* Thüm. Pilzfl. Sibir. n. 792. — Peritheciis sparsis, punctiformibus, prominentibus, primo epidermide tectis, demum liberatis et e rima exsertis, parvulis, nigris; sporulis ovatis vel ellipsoideis vel globuloso-ovoideis, continuis, utrinque rotundis, enucleatis, 8-10 ≃ 5-7, hyalinis; basidiis brevissimis, achrois. 505

Hab. in ramulis vivis Nitrariæ Schoberi, in salsis prope Ujbat, fluv. Sibiriæ.

127. **Phoma Corni** Fuck. Symb. 207 (ad *Diaporthem Corni*), Mich. II. p. 94. — Peritheciis sparsis, sub epidermide nidulantibus, demum erumpentibus, et epidermide nigrificata cinctis, minutis, subglobosis, papillatis; sporulis oblongo-cylindraceis, curvulis, 2-3-guttulatis, 8-10 ≃ 2-3 («basidiis uncinatis 25 ≃ 1»). 506

Hab. in ramis corticatis Corni sanguineæ et albæ, in Germania et Gallia.

128. **Phoma Corni-Suecicæ** (Fr. p. p.) Sacc., *Sphæropsis Corni-Suecicæ* (Fr. p. p.) Curr. Simpl. Sphær. p. 330, *Sphæria Corni-Suecicæ* Fr. p. p. Cfr. Syll. I. 547. — Peritheciis sparsis, depressis; ostiolo vix manifesto; sporulis cylindraceis, rectis, hyalinis, 5 μ. longis. 507

Hab. in ramis Corni Suecicæ, in Suecia.

129. **Phoma diatrypea** (C. et E.) Sacc., *Sphæropsis diatrypea* C. et E. in Grevillea tab. 95, fig. 6. — Peritheciis confluentibus in stroma diatrypoideum, atris, erumpentibus, epidermide fissa cinctis; sporulis ellipticis, hyalinis, in cirros pallidos emergentibus, 12 ≃ 5. 508

Hab. in ramis Chionanthi, New Jersey in Amer. bor.

130. **Phoma megasperma** Speg. F. Argent. Pug. III. n. 98. — Peritheciis subepidermicis, densiuscule gregariis, lenticularibus, 100-120 μ. diam., membranaceis; contextu parenchymatico, olivaceo-fuligineo; ostiolo impresso pertusis; sporulis in sterigmatibus cylindraceis, parvulis, 10-18 ≃ 5, hyalinis, acrogenis, ellipticis, utrin- 509

que obtuse acutatis, granuloso-farctis, non vel 1-guttulatis, 15-22 ≃ 6-8, hyalinis.

Hab. ad ramulos foliaque emortua vel languentia Polygalæ myrtifoliæ, en el Paseo de Julio prope Buenos-Aires. — Forma ramulicola ad *Dothiorellam* vergit, forma vero foliicola ad *Phomam* accedit.

131. **Phoma lirelliformis** Sacc. Mich. I. p. 522. — Peritheciis parallele dense gregariis, lineari-oblongis, $^1/_2$–$^3/_4$ ≃ $^1/_4$ mill. d., innatis, dein rimose erumpentibus; sporulis ovato-oblongis, rectis, 2-guttulatis, 7 ≃ 3-3$^1/_2$, hyalinis (basidiis non visis). 510

Hab. in ramis decorticatis Rhamni Alaterni, in Gallia. — Forma **ribicola**: sporulis 8 ≃ 2,5; basidiis bacillaribus, 20 ≃ 2, suffultis. — Affinis *Ph. leptideæ*, *Ph. lirellatæ* et *Ph. striæformi*, a quibus tamen satis differt.

132. **Phoma pulla** Sacc. Mich. II. p. 96, *Ph. Hederæ* Fuck. nec Desm. — Peritheciis gregariis, epidermide subinde atrata velatis, depressis; sporulis oblongis, 8 ≃ 2, 2-guttulatis; basidiis uncinatis, 15-16 ≃ 1, suffultis. 511

Hab. in ramulis emortuis Hederæ Helicis, in Italia bor. et Gallia. — Spermogonium *Diaporthes pullæ*.

133. **Phoma macrostoma** Mont. Syll. n. 974 et Cent. VI. n. 42, in Ann. 3, XI. p. 52. — Peritheciis tectis, gregariis, globoso-depressis, minutissimis, fusco-atris, poro amplo vertice pertusis; sporulis perexiguis, oblongo-ovoideis, hyalinis, utroque fine, 1-guttatis, 6-7 ≃ 2,5-3. 512

Hab. in ramis Hederæ Helicis, apud Salon, Galloprovincia (Castagne).

134. **Phoma Helicis** Pass. et Beltr. F. Sic. n. 21. — Peritheciis subglobosis, tectis, fuscis, epidermidem sublevantibus; sporulis fusiformibus, cylindricis, rectis, hyalinis, apicibus minute nucleatis, 13-15 ≃ 2$^1/_2$; basidiis non uncinatis. 513

Hab. in ramulis aridis Hederæ Helicis, Monostalla in Sicilia. — A *Phoma pulla* rite diversa.

135. **Phoma Opuli** Thüm. Contr. Myc. Lus. n. 564. — Peritheciis sparsis v. solitariis, globulosis, exsertis, nigris, mediis, epidermide cinctis; sporulis late ellipsoideis, utrinque rotundatis, uni- v. plerumque non nucleatis, hyalinis, 5 ≃ 4-4,5. 514

Hab. in ramulis subaridis Viburni Opuli, prope Lisboa in Lusitania (da Veiga).

136. **Phoma tinea** Sacc. Mich. I. p. 521. — Stromate obsoleto; pe- 515

ritheciis cortice nidulantibus, gregariis, oblongis, $^1/_2 \simeq {}^1/_4$ mill. d.; nucleo griseo; sporulis fusoideo-oblongis, $8 \simeq 2$, 2-guttulatis, hyalinis; basidiis linearibus, sursum acutioribus, $15 \simeq 1^1/_2$, hyalinis.

Hab. in ramulis emortuis Viburni Tini, Rouen in Gallia (Letendre). — Spermogonium *Diaporthes*.

137. **Phoma hyalina** (B. et C.) Sacc., *Sphæropsis hyalina* B. et C. North Amer. F. n. 409. — Peritheciis epidermide pustulata subtectis; sporulis ellipticis, hyalinis, 26–32 μ. longis. 516

Hab. in ramis Ribis rubri, Viburni dentati, Fraxini Americanæ, in America boreali.

138. **Phoma ribesia** Sacc. Mich. I. p. 520 (*Ph. pungens*). — Peritheciis gregariis, tectis, erumpentibus, globoso-depressis; sporulis oblongo-fusoideis, subinæquilateralibus, $10 \simeq 3^1/_2$, 2-guttulatis, hyalinis basidiis fasciculatis, filiformibus, subæquilongis. 517

Hab. in ramulis Grossulariæ, prope Rouen in Gallia (Letendre). — Spermogonium, ut videtur, *Diaporthes pungentis* Nits.

139. **Phoma Grossulariæ** Schulz. et Sacc. Micr. Slav. n. 43, Schulz. Ill. Fung. Slav. n. 790. — Peritheciis gregariis, globoso-depressis, initio epidermide velatis, apice obtuso pertusis, 0,2–0,3 mill. d.; sporulis oblongis, perexiguis, 6–9 μ. long., hyalinis; basidiis obsoletis. 518

Hab. in ramulis Ribis Grossulariæ, prope Vinkovce.

140. **Phoma Lycii** Sacc. Cfr. Hazl. Sph. der Lyc. p. 450, tab. XIV. fig. 7–8. — Peritheciis gregariis subcutaneis, globoso-papillatis, atris, initio basi pilosis, dein calvescentibus; sporulis cylindraceo-oblongis, hyalinis (10–12 μ. longis?); basidiis duplo longioribus, acicularibus. 519

Hab. in ramulis Lycii barbari, socia *Fenestella Lycii*, in Hungaria.

141. **Phoma abdita** Sacc. Mich. II. p. 96. — Peritheciis tectis, globoso-depressis, griseis, gregariis; sporulis fusoideis, $10 \simeq 2$, 2-guttatis, hyalinis; basidiis, 10–12 long., filiformibus, suffultis. 520

Hab. in ramis Meliæ Azedarach, Toulouse in Gallia. — Spermogonium *Diaporthes*.

142. **Phoma perforans** (Lév.) Sacc., *Sphæropsis perforans* Lév. Ann. Sc. Nat. 1846, p. 297. — Peritheciis gregariis, epidermide secedente cinctis; sporulis ellipticis, obtusis, pellucidis. 521

Hab. ad ramos Sterculiæ platanifoliæ, Avignon in Gallia (Requien).

143. **Phoma Volkameriæ** Speg. Mich. I. p. 481. — Peritheciis asto- 522

mis (?), epidermide nigrificata atque tumefacta, nitente tectis, globoso-lenticularibus, 150-200; sporulis hyalinis, ellipticis, utrinque attenuatis, obtusiusculis, non vel 1-2-guttulatis, 7-11 ≃ 3-5.

Hab. in ramulis emortuis putrescentibus Volkameriæ fragrantis, Conegliano in Ital. bor. — Spermogonium *Diaporthes.*

144. **Phoma viridarii** Sacc. Mich. II. p. 96. — Peritheciis gregariis, 523
velatis, globoso-depressis, 120 μ. diam., poro pertusis; sporulis fusoideis, 9-10 ≃ 3, 2-guttatis, hyalinis; basidiis brevioribus, cylindraceis, suffultis.

Hab. in ramis Magnoliæ grandifloræ, Saintes in Gallia (Brunaud). — Spermogonium *Diaporthes.*

145. **Phoma stictica** B. et Br. Ann. N. H. n. 400. — Peritheciis sub- 524
sparsis, exiguis, epidermide dein longitudinaliter fissa velatis; sporulis oblongo-ellipsoideis, biguttulatis, hyalinis, 7-8 ≃ 3-3,5, stipitellatis.

Hab. in ramis putrescentibus Buxi sempervirentis, in Italia, Britannia, Austria, Gallia. — Spermogonium *Diaporthes retectæ* Fuck.

146. **Phoma Robergeana** Sacc. Mich. I. p. 520. — Peritheciis gre- 525
gariis, subcutaneo-erumpentibus, globoso-depressis, vix pertusis; sporulis, 9 ≃ 2, eguttulatis, hyalinis, curvulis; basidiis filiformibus, 25-30 ≃ $1^1/_2$.

Hab. in ramulis Staphyleæ pinnatæ, Saintes in Gallia (Brunaud). — Spermogonium *Diaporthes.*

147. **Phoma Poinsettiæ** Sacc. Mich. II. pag. 341. — Peritheciis laxe 526
gregariis, subcutaneis, globoso-oblongis, nigro-olivaceis; sporulis ovato-oblongis, 6-7 ≃ $1^1/_2$-2, utrinque obtusiusculis, 2-guttulatis, hyalinis; basidiis bacillaribus, crassiusculis, sesquilongioribus, suffultis.

Hab. in ramis emortuis Poinsettiæ pulcherrimæ, in calidariis Lyon in Gallia (Therry). — Spermogonium *Diaporthes.*

148. **Phoma Ophites** Sacc. Misc. myc. n. 2262. — Peritheciis subcu- 527
taneis, globoso-depressis, atro-olivaceis, subinde linea stromatica nigricante subcorticali cinctis; ostiolo obtuso, erumpente; sporulis fusoideis, rectis, 10 ≃ 2, 2-guttatis, hyalinis; basidiis acicularibus, fasciculatis, 15 ≃ 1,5, hyalinis.

Hab. in ramulis emortuis Hibisci syriaci, Saintes in Gallia (Brunaud). — Spermogonium *Diaporthes Ophites* Sacc.

149. **Phoma exul** Sacc. Mich. II. p. 95. — Peritheciis gregariis, te- 528
ctis stratoque stromatico nigro conjunctis, globoso-depressis, initio

griseis: sporulis cylindraceis, utrinque obtusiusculis, 10-11 = 2, 2-guttatis, hyalinis: basidiis filiformibus, curvulis, suffultis.

Hab. in ramis corticatis Maclurae aurantiacae, Santos in Gallia. — Spermogonium *Diaporthes*.

150. **Phoma Escalloniæ** Sacc. Mich. II. p. 340. — Perithecis gregariis, subcutaneis, oblongis, griseis; sporulis ovato-oblongis, 7 = 2, biguttatis, hyalinis: basidiis acicularibus, 15 = 1, suffultis. 539

Hab. in ramis corticatis Escalloniae, Rouen in Gallia. — Spermogonium *Diaporthes*.

151. **Phoma Diospyri** Sacc. Mich. I. p. 258. — Perithecis gregariis vel subaggregatis, cortice secedente, subsuperficialibus vel semi-immersis, globoso-papillatis, nigris, contextu parenchymatico subcarinaceo: sporulis fusoideis, 7-8 = 2, rectis v. leniter curvis, 2-guttulatis, hyalinis: basidiis fasciculatis, filiformibus, simplicibus ramulosisve, 18-20 = 1½, hyalinis, e strato prolegero subochraceo orientibus. 540

Hab. in ramis decorticatis Diospyri Lotti, in horto botanico Patavino.

152. **Phoma Kœlreuteriæ** Sacc. Mich. II. p. 69. — Perithecis pan-otiformibus, subtectis: sporulis oblongo-cylindraceis, 4 = 1-2; basidiis duplo longioribus suffultis. 541

Hab. in ramis Kœlreuteriae paniculatae, Bordeaux in Gallia.

153. **Phoma mixta** B. et C. North Amer. Fungi n. 388. — Subcorticalis, pustulata, sero liberata: sporulis utrinque apiculatis, breve fusoideis, 6 μ. longis, subæqualibus; processibus filiformibus, apice curvatis, intermixtis, 18 μ. longis. 542

Hab. in ramis corticatis Viburni, Viburni cymifolii, in Carolina et Pensylvania, regionibus Amer. bor. — «Processus verisimiliter sunt basidia jam liberata».

154. **Phoma macropus** B. et C. North Amer. Fungi n. 376. — Subcuticularis: perithecis sparsis cum cuticula secedentibus, demum collapsis: basidiis flexuosis, sporulis breviter oblongis, 5-6-plo longioribus. 543

Hab. in turionibus albis cujusdam fruticis, in Amer. bor.

155. **Phoma seriata** Lev. Ann. Sc. Nat. 1845. p. 63. — Erumpens: peritheciis ovatis vel globosis nigris, seriatis, intus nigris: ostiolis obsolete papillatis, pertusis: sporulis ellipsoideis, continuis. 544

Hab. ad cortices, in insula Java (Junghuhn).

156. **Phoma Keckii** (Thum.) Sacc. *Sphæropsis Keckii* Thum. in Rev. 545

Mycol. n. XV. — Peritheciis numerosis, dense gregariis, primo tectis, demum erumpentibus et epidermide ad basim cinctis, hemisphærico-subconicis, vix emersis vel protuberantibus, submagnis, aterrimis; sporulis ellipsoideis vel subglobulosis, sæpe apice angustatis, utrinque rotundatis, intus homogeneis, episporio tenui, 20–26 = 10–16, achrois.

Hab. in caulibus subemortuis Calotropidis giganteæ, Canara in Ind. orient. (Dr. Keck).

157. **Phoma Tecomæ** Sacc. Fungi Ven. Ser. V. p. 201. — Perithecii 536
sub epidermide parum tumidula, tenuissime fissa nidulantibus, hinc inde zona nigra circumscriptis, minutis, lenticularibus, nigris; sporulis fusoideis, 8 = 3, utrinque obtusiusculis, 2-guttulatis, hyalinis, sterigmatibus filiformibus, curvulis, 20 = 1, fultis.

Hab. in sarmentis Tecomæ radicantis, prope Treviso in Italia bor. et prope Rouen in Gallia. — Spermogonium *Diaporthes*.

158. **Phoma Baculum** (Ger.) Sacc., *Sphæropsis Baculum* Ger. in Gre- 537
villea. — Peritheciis erumpentibus, subgregariis, obtusis, epidermide cinctis; sporulis cylindraceis, obtusis, hyalinis, in cirros ochraceos emergentibus, 20 = 4.

Hab. in ramis Catalpæ, New York in Amer. bor.

159. **Phoma pustulata** Sacc. Cfr. Tul. Carp. II. p. 163. — Perithecis 538
subcutaneis, gregariis, globoso-depressis vel conicis, subinde pluribus zona atrata cinctis, subastomis, vertice erumpentibus; sporulis oblongis, 10–13 = 3,5; basidiis hamatis, 14 μ. longis.

Hab. in ramis Aceris Pseudoplatani, in Gallia. — Spermogonium *Diaporthes pustulatæ*.

160. **Phoma protracta** Sacc. Mich. I. p. 259. — Perithecis in acer- 539
vulos elongatos, subparallelos digestis, erumpentibus, globulosis, papillatis, aterrimis; sporulis minutis, oblongis, 4 = 1 1/2 μ. hyalinis; basidiis filiformibus, fasciculatis, hyalinis, 25 = 1 1/2 μ. suffultis.

Hab. in ramis corticatis emortuis Aceris campestris, Padova in Italia bor. — Verisimiliter status spermogonicus *Cucurbitariæ protractæ* Fuck.

161. **Phoma consors** C. et E. in Grevillea cum icone. — Cæspitosa, 540
atra; perithecis superficialibus, globosis; sporulis linearibus, truncatis, utrinque nucleatis, 14 μ. long.

Hab. in ramis decorticatis Aceris, New York in Amer. bor. (Ellis). — Cæspituli e 3-4 perithecis minutis atro-nitidulis compositi. — An *Dothiorellæ* species?

162. **Phoma Lebiseyi** Sacc. Mich. I. p. 257. — Perithecis gregariis, 541

epidermide velatis, globoso-depressis, atris; sporulis ovato-fusoideis, 8-10 ≃ 3, 2-guttatis, hyalinis; basidiis filiformibus, sesquilongioribus, fultis.

Hab. in ramis emortuis Aceris Negundinis, Conegliano in Italia bor., et in Gallia merid. (Roumeguère). — Spermogonium *Diaporthes Lebiseyi.*

163. **Phoma velata** Mich. II. p. 96. — Peritheciis tectis, dein epi- 542
dermide lacerata semi-detectis, globulosis; contextu olivaceo-fusco; sporulis oblongis, 10-12 ≃ 2½, 2-guttulatis, hyalinis; basidiis filiformibus, 20 ≃ 1½, suffultis.

Hab. in ramis corticatis Tiliæ europææ, Rouen in Gallia. — Spermogonium *Diaporthes.* — Forma **minor**: sporulis breve fusoideis, 7-7½ ≃ 1¾-2, biguttulatis, hyalinis; basidiis bacillaribus, brevibus, 10-14 ≃ 1, suffultis. — In ramis Tiliæ, Saintes in Gallia.

164. **Phoma Scheidweileri** (West.) Sacc., *Sphæropsis Scheidweileri* 543
West. Not. V. p. 20. — Peritheciis tectis, membranaceis, atro-brunneis, dein nigris, globuloso-depressis, sparsis vel aggregatis, innatis, dein prominulo-erumpentibus; nucleo albido; ostiolo papillato, dein deciduo peritheciumque cupulatum relinquente; sporulis ovoideo-elongatis, hyalinis, dein protrusis, 24-30 ≃ 12-14.

Hab. in cortice Tiliæ, prope Gand in Belgio. — An *Diplodiæ Scheidweileri,* seu *D. pustulosæ* Lév. statum mere sistat immaturum, nondum liquet.

165. **Phoma imperialis** Sacc. et Roum. Mich. II. p. 330 (sub nomine 544
P. Paulowniæ). — Peritheciis gregariis, epidermide denigrata atque maculosa velatis, globoso-depressis; sporulis oblongis, 8 ≃ 3, biguttulatis, hyalinis.

Hab. in petiolis Paulowniæ imperialis, in horto Garrenne de Nerac in Gallia. — Spermogonium *Diaporthes.*

166. **Phoma Paulowniæ** Thüm. Contr. Fung. Lit. n. 171, t. I. f. 33. 545
— Peritheciis sparsis, primo epidermide tectis, demum rimoso-perforantibus in rimis longissimis, globosis, atris; sporulis minutis, enucleatis, cylindricis v. cylindrico-ovatis, utrinque rotundato-acutatis, hyalinis, 3,5-5 ≃ 1,5.

Hab. in ramulis aridis Paulowniæ tomentosæ, Gorizia in Italia boreali.

167. **Phoma Rosmarini** Speg. Mich. I. p. 481. — Peritheciis super- 546
ficialibus, ligno circumnigrificato decorticato adnatis, lenticulari-hemisphæricis, atris, rugulosis, 2-3, stromatice aggregatis, 200-250

μ. diam., carbonaceis; sporulis ovoideo-fusoideis, inferne acutiusculis, antice obtusis, hyalinis, granuloso-farctis, minute 2-guttulatis, 6-10 ≃ 2-3.

Hab. in ramulis emortuis Rosmarini officinalis, Conegliano in Italia bor. — Spermogonium *Diaporthes*.

168. **Phoma Lagerstrœmiæ** Speg. Mich. I. p. 482. — Peritheciis ligno stromatice nigrificato immersis, 110-150 μ. diam.; ostiolo pertuso, papillato donatis; sporulis ovoideo-ellipticis, utrinque obtusiusculis, hyalinis, 2-guttulatis, 7-10 ≃ 2-3. 547

Hab. in ramulis emortuis Lagerstrœmiæ indicæ, Conegliano in Italia bor. — Spermogonium *Diaporthes*.

169. **Phoma tamaricaria** Sacc. Mich. II. p. 95 (sub nomine *Ph. tamaricina*). — Peritheciis velatis, globoso-depressis, gregariis, fusoideis, 9 ≃ 2, 2-guttulatis, hyalinis; basidiis uncinatis, 30 ≃ 1, suffultis. 548

Hab. in ramulis Tamaricis africanæ, S. Laurent in Gallia. — Spermogonium *Diaporthes*.

170. **Phoma africana** Speg. Revue mycol. II. p. 161. — Peritheciis lenticularibus, parvulis, 130-150, coriaceo-membranaceis, primo subepidermicis, dein epidermide secedente, liberis, atris; contextu pachydermatico fuligineo; sporulis ellipticis vel ovoideis, hyalinis, 4-7 ≃ 3-5 μ. 549

Hab. ad ramulos emortuos Tamaricis africanæ, in ora maritima, S. Vincent, insula Africæ.

171. **Phoma rimincola** Sacc. Mich. I. p. 523. — Peritheciis subgregariis, subliberis, globoso-conoideis, 110-120 μ. diam., pertusis, nigris, intus albidis; sporulis cylindraceis, rectis, utrinque obtusis, 5 ≃ 1, hyalinis. 550

Hab. in ramis Tamaricis anglicæ cum *Rosellinia rimincola*, in Gallia (Brunaud).

172. **Phoma tamaricella** Sacc. Mich. II. p. 92 (sub nomine *Ph. Tamaricis*). — Peritheciis corticolis, tectis, 1/6 mill. d., globulosis, ostiolo erumpente papillato; sporulis breve cylindraceis, perexiguis, 4 ≃ 3/4, rectiusculis, hyalinis; basidiis subnullis. 551

Hab. in ramulis Tamaricis anglicæ, Rouen in Gallia (Letendre). — An satis diversa a *Phoma tamaricina* Thüm.?

173. **Phoma tamaricina** Thüm. in Œsterr. bot. Zeitschr. 1877, p. 12. — Peritheciis subglobosis, semiimmersis, erumpentibus, gregariis, minutis, atris; sporulis minimis, cylindraceis, rectis vel leniter curvatis, utrinque obtusatis, sine nucleo, vitreis, 5-6 ≃ 1-1,5. 552

Hab. in ramulis emortuis sed adhuc pendulis Tamaricis gallicæ, Krems in Austria (Thümen).

174. **Phoma Tamarisci** (Mont.) Sacc. *Clisosporium Tamarisci* Mont. Cent. VII. p. 341–9. — Minuta tecta, dein nuda; peritheciis $^1/_3$–$^1/_{10}$ mill. diam., membranaceis, sphæricis, atris, opacis, exsiccatione depresso-umbilicatis, specie ostiolatis, irregulariter dehiscentibus; sporulis globoso-suboblongis, 6,5 μ. longis, innumeris. 553

Hab. sub cuticula corticis Tamaricis gallicæ, prope Montand in Gallia australi (Castagne).

175. **Phoma hapalocystis** Sacc. *Calosporæ hapalocystis* spermog. Fuck. Symb. Myc. p. 191. — Peritheciis sub cortice demum fissa cæspitosis, globosis, papillatis, nigris; sporulis minutissimis, cylindraceis, curvatis, $3 \simeq 1$. 554

Hab. in ramis emortuis Platani, in Rhenogovia.

176. **Phoma scabra** Sacc. Mich. II. p. 340. — Peritheciis dense gregariis, globoso-depressis, subcutaneo-erumpentibus, olivaceo-farctis; sporulis breve fusoideis, acutiusculis, $7\text{–}8 \simeq 2\text{–}2^1/_2$, biguttulatis, hyalinis; basidiis filiformibus, curvis, duplo longioribus, suffultis. 555

Hab. in ramis corticatis Platani, in Gallia (Therry). — Spermogonia *Diaporthes*.

177. **Phoma notha** Berk. Ann. N. H. n. 395. — Peritheciis spuriis, subtus hic illic elevatis, indeque spurie plurilocellatis, subcircularibus; sporulis obovatis, deorsum acutioribus. 556

Hab. in ramis emortuis Platani, in Britannia. — Probabiliter *Fusicocci* species.

178. **Phoma Radula** B. et Br. Ann. N. H. n. 396. — Peritheciis tenellis, late conicis, subcutaneo-erumpentibus, prominentibus, hinc matricem asperantibus, contextu tenui, laxe parenchymatico; sporulis minutis, oblongo-ellipsoideis, biguttulatis, rarius 3-guttatis, hyalinis. 557

Hab. in ramis emortuis Platani, in Britannia.

179. **Phoma stictina** Sacc. *Coccularia stictica* Berk. North Am. F. n. 451. — Peritheciis punctiformibus, nigris, subinde confluentibus; sporulis breviter ellipticis, 1-nucleatis, $7\text{–}8 \simeq 6$. 558

Hab. in ramis corticatis Platani etc., in Carolina merid. — *Coccularia* Corda est *Coniosporio* analoga.

180. **Phoma sphærospora** Sacc. Mich. II. p. 338. — Peritheciis gregariis, erumpenti-superficialibus, globulosis, obtuse papillatis, densiusculis, nigris, $^1/_2$ mill. diam.; sporulis globulosis, deorsum brevissime apiculatis, $9\text{–}14 \simeq 8\text{–}10$, nucleo nucleolato fœtis, hyalinis. 559

Hab. in ramulis Ailanthi (?), Lyon in Gallia (Therry). — *Phomæ Hippoglossi* affinis.

181. **Phoma Ailanthi** Sacc. — Peritheciis acervulatis, conoideis, atris, innato-emergentibus; sporulis ovato-fusoideis, hyalinis, 2-guttulatis, 7 ≃ 2,5; basidiis filiformi-arcuatis, 25 ≃ 0,5. 560

Hab. in ramis Ailanthi glandulosæ, in Italia boreali. — Spermogonium *Diaporthes Ailanthi* Sacc. (Syll. I. 621).

182. **Phoma ailanthina** Thüm n. Sp. Symb. mycol. Austr. I. p. 5. — Peritheciis gregariis, epidermidem perforantibus, coacervatis, elevatis, liberis, atro-fuscis; sporulis globosis vel globoso-ellipticis, numerosissimis, simplicibus, enucleatis, 3-5 ≃ 2,5-3, hyalinis. 561

Hab. in ramulis emortuis Ailanthi glandulosæ, Klosterneuburg in Austria.

183. **Phoma tertia** (Cooke) Sacc. *Sphæropsis tertia* Cooke Grev. XII. p. 22. — Sparsa vel subgregaria, punctiformis; peritheciis depressis, minimis, atris, cuticula tectis; sporulis elongato-ellipticis, utrinque obtusis, hyalinis, 18 ≃ 3,5-4. 562

Hab. in ramis Ailanthi, in Carolina austr., regione Americæ borealis (Ravenel).

184. **Phoma longipes** B. et C. North Am. Fungi n. 375. — Subcorticalis gregaria; sporulis minutis, breviter oblongis; basidiis sporulâ multoties longioribus. 563

Hab. in ramis corticatis Mori rubræ, in Carolina inferiore, regione Americæ borealis.

185. **Phoma moricola** Sacc. Mich. I. p. 525. — Peritheciis gregariis, cortice nidulantibus, globoso-depressis, griseis, $^1/_3$ mill. diam; sporulis oblongis, curvulis, 8 ≃ 2-2$^1/_2$, 2-guttulatis, hyalinis (basidiis non visis). 564

Hab. in ramis corticatis Mori albæ, pr. Rouen in Gallia (Letendre). — A *Ph.* (Aposphæria) *Mori* Mont. diversissima.

186. **Phoma Mororum** Sacc. Boll. mens. di Bachicoltura, Padova 1884, n. 4, p. 15. — Peritheciis gregariis, subcutaneis, vix erumpentibus, globoso-depressis, 190-200 μ. diam., vertice obtuso, pertusis, mycelio effuso, fuligineo-atro, hypodermico innatis; hyphis subramosis, tortuosis, septatis, 7-9 μ. crass.; sporulis oblongis, obtusiusculis, hyalinis, 6-7 ≃ 2,5-3, eguttulatis; basidiis nullis vel obsoletis. 565

Hab. in ramulis languidis sed nondum emortuis Mori albæ, in Italia boreali, vere 1884 copiosa et noxia.

187. **Phoma Broussonetiæ** Sacc. Mich. II. p. 94. — Peritheciis gre- 566

gariis, tectis, oblongis, griseo-nigris; sporulis fusoideis, 9 ≃ 2, 2-guttulatis, stipitellatis.

Hab. in ramis corticatis Broussonetiæ papyriferæ, Rouen in Gallia (Letendre). — Spermogonium *Diaporthes*.

188. **Phoma cinerescens** Sacc. Mich. I. p. 521. — Peritheciis gregariis, globoso-depressis, atroolivaceis, subcutaneis; sporulis fusoideis, biguttulatis, 6–8 ≃ 2–2,5, hyalinis. 567

Hab. in ramis corticatis v. demum decorticatis Fici Caricæ, in Italia et Gallia. — Spermogonium *Diaporthes cinerescentis* Sacc. — An huc spectet *Phoma Ficus* Cast. in Kl. Herb. myc. n. 1870, ignotis diagnosi et speciminibus, dijudicare nequeo.

189. **Phoma juglandina** (Fuck.) Sacc. Mich. I. p. 521. — Peritheciis globoso-depressis, tectis, atrogriseis, obtusis; sporulis breve fusoideis, 10–12 ≃ 3–4, 2-guttatis, hyalinis; basidiis curvulis, filiformibus, 25 ≃ 1–1½. 568

Hab. in ramis corticatis Juglandis regiæ, in Gallia, Germania et Italia. — Spermogonium *Diaporthes*.

190. **Phoma quercella** Sacc. et Roum. Mich. II. p. 339 (sub nom. *Ph. quercina*). — Peritheciis laxe gregariis, subcutaneo-erumpentibus, globoso-depressis, breve papillatis, nigris, contextu minute parenchymatico; sporulis fusoideis, acutis, 8–9 ≃ 2–2¼, biguttulatis; basidiis e strato proligero flavicante oriundis, bacillaribus, quandoque furcatis, 20–25 ≃ 3, suffultis. 569

Hab. in ramulis tenellis quercinis, Francheville pr. Lyon in Gallia (Therry). — Spermogonium *Diaporthes*.

191. **Phoma dryina** (B. et C.) Sacc. *Sphæropsis dryina* B. et C. North Am. F. n. 411. — Peritheciis papillæformibus, epidermide cinctis; sporulis obovatis, hyalinis, 15 ≃ 6–7. 570

Hab. in ramis quercinis, in Pensylvania, regione Americæ borealis (Michener). — Perithecia, ob epidermidem tegentem, cinerescunt.

192. **Phoma endophlæa** Sacc. F. Gall. Ser. V. n. 2176. — Peritheciis in peridermio interiore immersis, subsparsis, globoso-depressis, ⅓ mill. diam., poro pertusis, atris; sporulis bacillaribus, curvulis, utrinque obtusis, 18 ≃ 1,5–2, subhyalinis; basidiis filiformibus, 20–25 ≃ 1, fasciculatis, suffultis. 571

Hab. in cortice interiore ramorum Quercus, Saintes in Gallia (Brunaud).

193. **Phoma quercina** (Peck) Sacc. *Sphæropsis quercina* Peck 25 Rep. p. 86. — Peritheciis convexis, levibus, erumpentibus, nigro- 572

brunneis v. nigris, intus albis, epidermide albicante rupta cinctis; sporulis ellipsoideis, hyalinis, 8–9 μ. longis.

Hab. in ramis emortuis Quercus, Greenbush in Amer. bor.

194. **Phoma putator** Sacc. Mich. pag. 616. — Peritheciis subcutaneis, 573
globoso-depressis, gregariis, pertusis; sporulis oblongo-fusoideis, 9-10 = 2,5, biguttatis, hyalinis; basidiis bacillaribus, 8 = 1,5.

Hab. in ramis corticatis Populi, in Gallia, Germania et Italia. — Spermogonium *Diaporthes*.

195. **Phoma Crepini** Speg. et Roum. Mich. II. p. 338. — Peritheciis 574
erumpentibus, cæspitulosis, globoso-papillulatis, contextu parenchymatico, rufescente; sporulis oblongis, minutissimis, 4 = 1, 2-guttulatis, hyalinis, sæpe curvulis.

Hab. in ramis Populi fastigiatæ, in Gallia et Germania. — Spermogonium, ut videtur, *Canangii populini*.

196. **Phoma populicola** Karst. Hedw. 1884, p. 62. — Peritheciis per cor- 575
ticem erumpentibus, cæspitosis, subovoideis, atris, astomis, tandem poro pertusis, 300 μ. lat.; sporulis botuliformibus, hyalinis, 2–3 = 0,5.

Hab. in ramis emortuis Populi tremulæ, prope Aboam in Fennia. — a Perithecis cæspitulosis, ad *Dothiorellam* vergit.

197. **Phoma Salicis** Sacc. *Sphæriæ Salicis* spermogon. Fuck. Symb. 576
p. 115. — Peritheciis tectis, sparsis, majusculis, atris, unilocularibus, obtusis, minute papillatis perforatisque; sporulis oblongo-ovatis, continuis, hyalinis, 3-guttatis, 8 = 4.

Hab. in ramis corticatis siccis Salicis fragilis, in Rhenogovia.

198. **Phoma acervalis** Sacc. *Gibberellæ acervalis* Spermog. Fuck. 577
Symb. p. 166. — Peritheciis cæspitosis, minutis, fuscis; sporulis minutissimis, cylindraceis, oscillantibus.

Hab. in ramis corticatis Salicis capreæ, in Rhenogovia.

199. **Phoma salicina** West. Crypt. Class. Append. (verisimiliter), Sacc. 578
et Roum. Rel. Lib. V. n. 63. — Peritheciis gregariis, subcutaneis, globoso-depressis; sporulis oblongis, 6–7 = 2–2,5, hyalinis; basidiis fasciculatis, æquilongis.

Hab. in ramis corticatis Salicis, in Gallia et Germania. — Spermogonium *Diaporthes* cujusdam. — Speciei Westendorpii diagnosim reperire non potui.

200. **Phoma palina** (Fr.) Sacc. *Sphæria palina* Fr. S. M. II. p. 494. 579
Cfr. Syll. II, p. 422, Curr. Simpl. Sphær. p. 328. — Sparsa, erumpens, sublibera, conica, rugosa, nigricans, poro pertusa, truncata; sporulis fusoideis, hyalinis, binucleatis, 7–8 μ. long.; basidiis longis.

Hab. in ramis emortuis Salicis, in Suecia et Gallia.

201. **Phoma endoleuca** Sacc. Mich. I p. 523. — Peritheciis cortice omnino nidulantibus, globulosis, $^1/_3$ mill. diam., vix papillatis, nucleo albo faretis; sporulis botuliformibus, 6 ≈ $1^1/_2$-2, leniter curvis, 2-guttulatis, hyalinis; basidiis subæquilongis, subsimplicibus, fultis. 580

Hab. in ramis Alni glutinosæ cum *Venestella*. in Gallia. — ***Ph. ligustrina** Sacc. l. c. A typo differt perithecii majoribus, $^1/_4$ mill. diam.; sporulis crassioribus, 6-7 ≈ $2^1/_2$, basidiis subnullis fultis. In ramulis Ligustri vulgaris, in Gallia. — **Ph. rhodophila** Sacc. Mich. II. pag. 91. (*Ph. Rosarum*). Perithecii tectis, dein erumpentibus, intus albidis, diu faretis; sporulis cylindraceis, 6 ≈ 2, utrinque obtusiusculis, 2-3-guttulatis, hyalinis, basidiis, 6-10 long. suffultis. In ramulis Rosæ caninæ, in Gallia. *Phoma Rosarum* Mont. sporulis duplo longioribus instructa est.

202. **Phoma mutica** (B. et Br.) Sacc. *Sphæropsis mutica* B. et Br. N. H. n. 422. — Perithecii erumpentibus, globosis, obtusis, plus minusve cæspitosis, nigris, luceutibus; sporulis parexiguis, ellipsoideis v. obovatis, hyalinis. 581

Hab. in ramulis Alni glutinosæ, Batheaston in Britannia. — Habitus *Diplodiæ*.

203. **Phoma Phillipsiana** Sacc. et Roum. Reliq. Lib. Ser. V. n. 68. — Perithecii laxe gregariis, mox emergentibus, cortice innatis, globoso-depressis, atris, apice rotundatis, nigris, $^1/_2$ mill. diam., subcoriaceis; sporulis globoso-ellipsoideis, 483-3 ≈ 5, 1-nucleatis, hyalinis; basidiis..... 582

Hab. in cortice ramorum Alni, in Germania et Gallia.

204. **Phoma alnea** (Nits.) Sacc. Mich. II. p. 97. — Perithecii gregariis, subcutaneis, depressis, atro-griseis; sporulis 7-8 ≈ $2^1/_2$-3; basidiis 20 ≈ 1, filiformi-arcuatis. 583

Hab. in ramis alneis, in Germania et Italia. — Spermogonium *Diaporthes alneæ* Fuck. (Sylloge I. 677).

205. **Phoma corticicola** Preuss Hoyersw. n. 27. — Perithecii in cortice insidentibus, erumpentibus, nigris, hemisphæricis, tenuissimis, cellulatis, punctiformibus; sporulis continuis, muco insidentibus, oblongis, albis; nucleo ovato. 584

Hab. in ramis Betulæ dejectis, Hoyerswerda.

206. **Phoma oppilata** (Fr.) Sacc. *Sphæria oppilata* Fr. S. M. II. p. 493. Curr. Simpl. Sphær. p. 328. — Peritheciis sparsis, erumpentibus, globosis, levibus, subastomis, nigris, ostiolo subrimoso; sporulis fusoideis, hyalinis, bi-nucleatis, 7-10 μ. longis. 585

Hab. in virgultis Betulæ, in Suecia. — Sec. Fr. in Curr. Suppl. Obs. p. 258 in statu typico est species ascigera.

207. **Phoma oblonga** Des. 22. Not. 6. — Perithecis oblongis, membranaceis, sparsim approximatis, epidermide demum longitudinaliter fissa obtectis, poro pertusis; nucleo cinereo; cirris albis validis; sporulis rectis, ovato-oblongis, hyalinis, 6–7 ≃ 3 μ.; guttulis 2, distincte globosis, semi-opacis. 586

Hab. ad ramos siccos Ulmi, in Gallia. — Spermogonium *Diaporthes Eris* videtur. — Ab hac specie forte non differt *Phoma eres* Sacc. Mich. I. p. 521. Syll. I. p. 631: perithecis $^1/_4$ mill. diam.; sporulis-fusoideis, 10 ≃ 3, biguttatis; basidiis filiformibus, 15–18 ≃ 2. In ramis Ulmi campestris, in Gallia et Italia.

208. **Phoma planiuscula** Sacc. *Ph. depressa* B. et Br. Ann. N. H. n. 397 nec Lév. — Perithecis spuriis supra valde depressis, stromate crassiusculo olivaceo exceptis pustulasque sparsas pertusas efficientibus; sporulis minutis oblongo ellipsoideis, utrinque acutiusculis, biguttulatis, hyalinis. 587

Hab. in ramis Ulmi et Robiniæ Pseudacaciæ, in Britannia.

209. **Phoma Malbranchei** Sacc. Mich. I. p. 521. — Perithecis cortice nidulantibus, globosis, $^1/_2$ mill. diam.; nucleo nigricante; ostiolo vix manifesto; sporulis, ovato-oblongis, 14–15 ≃ 5, 2-guttulatis, hyalinis; basidiis subæquilongis, filiformibus. 588

Hab. in ramis corticatis Ulmi campestris, Saintes in Gallia (Brunaud). — Status spermogonicus *Diap. Malbranchei* Sacc. vel forte *D. Saccardianæ* J. Kunze.

210. **Phoma sordida** Sacc. Cfr. Syll. I. p. 632. — Perithecis globoso-depressis, subcutaneo-erumpentibus, subgregariis; sporulis oblongo-fusoideis, 8–10 ≃ 2–25, biguttulatis, hyalinis; basidiis hamatis, filiformibus, 27 ≃ 1. 589

Hab. in ramis corticatis Carpini Betuli, in Germania et Italia. — Spermogonium *Diaporthes sordidæ.*

211. **Phoma revellens** Sacc. Cfr. Syll. I. p. 673. — Perithecis globoso-depressis, subcutaneo-erumpentibus, gregariis; sporulis oblongis, biguttulatis, 6–7 ≃ 3, hyalinis, stipitellatis. 590

Hab. in ramis putrescentibus Coryli Avellanæ et C. Lambertianæ, in Germania et Italia. — Spermogonium *Diaporthes revellentis.*

212. **Phoma corylina** (Thüm.) Sacc. *Sphæropsis corylina* Thüm. in Hedwigia. — Perithecis dense gregariis sed semper solitariis et 591

numquam confluentibus, primo epidermide tectis, demum perforantibus et prominulis, plano-hemisphæricis, opaco-nigris; basidiis fasciculatim dispositis, brevibus, tenuibus, flexuosis, hyalinis; sporulis ellipsoideis, utrinque rotundatis, simplicibus, episporio subcrasso, hyalinis, 13–18 ≃ 8–10.

Hab. ad ramos aridos Coryli Avellanæ, in Gallia et Germania (Libert).

B) Foliicolæ.

213. **Phoma parca** (B. et Br.) Sacc. *Sphæropsis parca* B. et Br. Ann. N. H. n. 420. — Peritheciis minutis, arescendo collapsis; sporulis oblongis, subcylindraceis, utrinque obtusis, sed una extremitate attenuatis, diametro transverso 4-5-plo longioribus. 592

Hab. in foliis Abietis excelsæ, in Britannia.

214. **Phoma acicola** (Lév.) Sacc. Mich. II. p. 272. *Sphæropsis acicola* Lév. in Ann. Scienc. nat. Bot. (1848) p. 256. — Peritheciis erumpentibus, globosis, dein rugulosis, epidermide cinctis, intus albidis, majusculis; sporulis ovato-oblongis, 7 ≃ 4, hyalinis. 593

Hab. in foliis deciduis Pini silvestris, in Gallia, Italia, Germania.

215. **Phoma acuum** C. et E. in Grevillea. — Sparsa; peritheciis minutis, atris, prominulis, primum tectis; sporulis linearibus, rectis vel curvulis, utrinque obtusis, hyalinis, 10 μ. longis. 594

Hab. in foliis Pinorum, New Jersey in Amer. bor.

216. **Phoma acuaria** (Cooke) Sacc. *Sphæropsis acuaria* Cooke, *Sphæria?* Lib. in Herb. — Erumpens, subglobosa, atra; ostiolo perforato; nucleo albo fluxili; sporulis cylindricis, utrinque obtusis, hyalinis, 15 ≃ 4. 595

Hab. in foliis Pinorum, in Rhenogovia.

217. **Phoma erythrella** Thüm. Symb. Myc. Austr. III. n. 61. — Peritheciis subgregariis, epiphyllis v. rarissime etiam hypophyllis, subconico-hemisphæricis, emersis, sanguinolentis, anguste rubro-cinctis, majusculis; nucleo nigro, globoso; basidiis brevibus, hyalinis, subrectis; sporulis ellipsoideo-globosis v. ovoideis, homogeneis, dilute griseolis, continuis, 4 ≃ 2, 5. 596

Hab. in foliis Pini austriacæ emortuis adhuc pendulis copiose, in Austria (Gregurowicz). — « An *Zythia* » ?.

218. **Phoma pinicola** (Zopf) Sacc. *Pycnis pinicola* Zopf Hedw. 1881. p. 146. — Peritheciis oblongis, gregariis v. sparsis, vertice varie 597

fissis, pachydermaticis, erumpentibus; sporulis sessilibus, anguste obovato-ellipsoideis v. oblongis, 8–12 ≃ 3–5, biguttatis, hyalinis.

Hab. in foliis semi virentibus Pini silvestris et P. Pinastri ex ramis vivis avulsis dejectisque, in Germania.

219. **Phoma pinastrella** Sacc. *Ph. Pinastri* Thüm. Beitr. Pilz. Pin. austr. p. 34, nec Lév. — Peritheciis gregariis sed semper simplicibus et nunquam confluentibus, semigloboso-subconoideis, prominentibus vel semiemersis, aterrimis, cuticula disrumpente regulariter cinctis; sporulis ellipsoideis, rectis vel interdum leniter arcuatis, utrinque subattenuatis et anguste rotundatis, raro homogeneis, plerumque biguttulatis, guttulis irregularibus magnis, hyalinis, 4–5,5 ≃ 2–2,5 numerosissimis. 598

Hab. in foliis emortuis Pini Pinastri, P. silvestris et P. Cembræ, in Gallia, Austria et Sibiria.

220. **Phoma Juniperi** (Desm.) Sacc. *Sphæropsis Juniperi* Desm. 17 Not. pag. 4. — Amphigena sed sæpius hypophylla, tuberculosa, atra, in series erumpens; peritheciis 2–3 minutissimis, stromate nigro immersis; nucleo albo; sporulis subglobosis, hyalinis, 3–4 μ. diam. 599

Hab. in foliis emortuis Juniperi communis, in Gallia.

221. **Phoma pithyophila** (Corda) Sacc. *Sphæronæma pithyophilum* Corda Sc. IV. 40. f. 116. — Peritheciis immersis, subconfluentibus, dein erumpentibus, atro-fuscis; nucleo luteo gelatinoso; sporulis oblongis, utrinque obtusis. 600

Hab. in foliis putridis Pini silvestris, prope Pragam in Bohemia.

222. **Phoma Pini** (Desm.) Sacc. *Sphæropsis Pini* Desm. Ann. Sc. not. 1848, p. 347. — Epiphylla, seriata, nigra; peritheciis erumpentibus, dein superficialibus, minutissimis, globosis vel globoso-depressis, 50 μ. diam.; globulo minuto albo; sporulis numerosis, 10 μ. long., ovoideis, hyalinis. 601

Hab. in foliis deciduis Pini Abietis, in Gallia.

223. **Phoma Piceæ** (Fiedl.) Sacc. *Sphæronæma Piceæ* Fiedl. Bot. Zeit. 1858, p. 82. — Peritheciis innatis, minutis, depresso-rotundis, rugulosis, atris, nitidis, subconfluentibus; nucleo albido, lutescente; sporulis oblongis, subpellucidis. 602

Hab. in foliorum pagina infer. Abietis, pr. Dœmitz in Germania. — *Ph. pithyophilæ* (Corda) peraffinis.

224. **Phoma Strobi** (B. et Br.) Sacc. *Sphæropsis Strobi* B. et Br. Ann. N. H. n. 421. — Peritheciis minutis, collabascentibus; spo- 603

rulis lineari-oblongis, crassitudine sua 6–7-plo longioribus, utrinque obtusiusculis.

Hab. in foliis, Pini Strobi, in Britannia. — Affinis *Phomæ parcæ*, sed perithecia minus collapsa, sporulæque majores obtusiores.

225. **Phoma geniculata** (B. et Br.) Sacc. *Sphæropsis geniculata* B. et Br. Ann. N. H. n. 421. — Peritheciis globosis; ostiolo conico prominulo; sporulis cylindraceis, curvis, utrinque rotundatis; basidiis angulo obtuso oblique affixis, subinde biguttulatis, diametro suo 4–5-plo longioribus. 604

Hab. in foliis Pini Strobi, in Britannia.

226. **Phoma thujana** Thüm. Symb. myc. Austr. III. n. 62. — Peritheciis minutis, epiphyllis, interdum etiam amphigenis, gregariis, punctiformibus, conoideis, emersis, atris; sporulis in basidiis achrois brevibus acrogenis, ovoideis, utrinque rotundatis, enucleatis, continuis, hyalinis, minutissimis, 3,5 ≃ 1,5–2. 605

Hab. ad folia emortua Thujæ orientalis, Pyrawarth in Austria inferiore.

227. **Phoma Taxi** (Berk.) Sacc. *Sphæropsis Taxi* Berk. Outl. p. 316. — Peritheciis gregariis, innatis, epidermide cinerascente velatis, nigris; ostiolo convexo, epidermidem tandem perforante; sporulis obovato-oblongis, stipitatis, hyalinis, 20–22 ≃ 8–9. 606

Hab. in foliis emortuis Taxi baccatæ, in Britannia, Gallia, Italia, Austria. — Probabiliter status immaturus *Diplodiæ Taxi* De Not.

228. **Phoma hysterella** Sacc. Mich. II. p. 275 — Peritheciis subcutaneis, hinc inde paucis, lineari-aggregatis epidermideque rimose (hysteriiformiter) fissa cinctis, globulosis, papillulatis, nigris, $^1/_5$ mill. diam.; sporulis obovatis, 10–11 ≃ 7, basi leniter acutatis, plurigut-tulatis, hyalinis, basidiis teretibus dimidio brevioribus suffultis. 607

Hab. in foliis emortuis Taxi baccatæ, in horto Patavino, socia *Physalospora gregaria* (Bizzozero).

229. **Phoma Wistariæ** Thüm. Contr. Mic. Litor. n. 172. Tab. I. f. 3. — Peritheciis epiphyllis, prominulis, subinnatis, mediis, gregariis, subglobosis, ostiolatis, nigris, in macula exarida, flavescenti, irregulari, fusco-purpureo marginata; sporulis subclavatis vel ellipsoideis, utrinque rotundatis, binucleatis, hyalinis vel achrois 6–8 ≃ 3. 608

Hab. ad folia viva Wistariæ sinensis, Gorizia.

230. **Phoma Hardenbergiæ** Penz. et Sacc. F. Mortol. n. 19, Tav. IV. fig. 7. — Peritheciis dense congregatis, minimis punctiformibus, 609

in foliorum macula arida insidentibus, tenuibus, brunneis, 150–170 μ. diam.; sporulis numerosissimis, ellipticis, utrinque acutiusculis, hyalinis, biguttulatis, 8-10 ≃ 3,3–3,5; basidiis dense constipatis, simplicibus, hyalinis, 10–12 ≃ 2–2,5.

Hab. in foliis vivis Hardenbergiæ ovatæ, quæ enecat, Mortola in Italia boreali.

231. **Phoma Roumeguerii** Sacc. Mich. II. p. 89. — Peritheciis in par- 610
tibus foliorum exsiccatis gregariis, depresso-globosis, $^1/_6$ mill. d., contextu parenchymatico, ochraceo-fusco; sporulis oblongis, 7 ≃ 2, 2-guttulatis, hyalinis, basidiis bacillaribus, 15–16 ≃ 2, suffultis.

Hab. in foliis Caraganæ arborescentis nondum omnino emortuis, Perpignan in Gallia (Roumeguére). — Ad *Phyllostictam* nutat.

232. **Phoma petiolorum** Desm. Ann. Sc. nat. 1847, p. 16. — Peri- 611
theciis sparsis, globosis v. ovoideis, nigris, epidermide tectis, papillatis, denique poro pertusis; nucleo albido; sporulis minutis ovoideo-oblongis, 2-guttulatis, 7–8 ≃ 3; basidiis filiformibus, 20–23 ≃ 1.

Hab. in petiolis Robiniæ Pseudacaciæ in Gallia et Britannia.

233. **Phoma Psoraleæ** Cooke in Grevillea. — Peritheciis atris, pun- 612
ctiformibus, in maculis angulatis congestis; sporulis minimis, 5 ≃ 2.

Hab. in foliis Psoraleæ, Aiken in Carolina, regione Amer. bor. — *Sphærellæ* cujusdam videtur spermogonium.

234. **Phoma fusca** Lév. Ann. Sc. Nat. 1846, p. 281. — Peritheciis 613
epiphyllis, confertis, globosis, fuscis, intus sordidis; ostiolis nullis; sporulis minutis, ovato-elongatis, continuis, pellucidis.

Hab. in foliis Leguminosæ exoticæ (herb. Mus. Par.).

235. **Phoma maculans** (Lév.) Sacc. *Sphæropsis maculans* Lév. Ann. 614
Sc. Nat. 1846, p. 297. — Peritheciis amphigenis, stipatis, globosis, adnatis, stromate nigro, limitato, maculæformi insidentibus; ostiolis depressis rugosis; sporulis ovato-oblongis, obtusis, hyalinis.

Hab. ad folia Leguminosæ (Cumming in herb. Mus. Par.).

236. **Phoma stigmea** Dur. et Mont. Syll. n. 981, in Explor. Scient. 615
Alger. Botanique, I. p. 606. — Amphigena; peritheciis fusco-atris, globosis, innatis, primum tectis, poro pertusis, tandem circumscisso-deciduis; basidiis brevissimis; sporulis oblongis, hyalinis.

Hab. in foliis Citri Aurantii, Bouzaréah in Algeria.

237. **Phoma eustaga** Penz. et Sacc. F. Agrumic. II. Contr. p. 5. — 616
Peritheciis gregariis, hypodermicis, majusculis, 150–170 μ. diam., sphæroideis, contextu parenchymatico, nigerrimis, duris; ostiolo

prominente; sporulis breviter ellipticis, utrinque rotundatis, hyalinis, 10–13 ≃ 6–8, guttulam unicam, refrangentissimam, in centro foventibus; basidiis obsoletis.

Hab. in maculis pallescentibus foliorum languidorum Citri Limonum, in frigidario horti botanici Patavini.

238. **Phoma rigida** Penz. in Mich. II. p. 430. — Maculis nullis; peritheciis hypophyllis, laxe gregariis, aterrimis, prorumpentibus, vix depressis, 100–140 μ. diam.; sporulis cylindraceis, bacillaribus, rectis, utrinque rotundatis, continuis, 10–11 ≃ 2–2,5, hyalinis, muco hyalino insidentibus; basidiis obsoletis vel nullis. 617

Hab. in foliis languidis vel delapsis Citri Limonum, socia *Sphærella sicula* et *Septoria sicula*, Carini in Sicilia (V. Beltrani).

239. **Phoma Mantegazziana** Penz. Mich. II. pag. 429. — Peritheciis gregariis, hypophyllis, majusculis, 280–320 μ. diam., sphæroideo-depressis, epidermide velatis, demum erumpentibus; ostiolo regulari, 15–18 μ. diam.; contextu parenchymatico; sporulis oblongis, utrinque rotundatis, hyalinis, protoplasmate granuloso farctis, 16–20 ≃ 5–7; basidiis cylindricis vel subclavatis, continuis, simplicibus, 14–18 ≃ 3–5. 618

Hab. in foliis languidis Citri medicæ, S. Terenzo, Spezia in Ital. bor. ubi 1878 leg. P. Mantegazza.

240. **Phoma familiaris** Sacc. *Phoma domestica* Speg. Fung. Arg. Pug. IV. n. 96 nec Sacc. — Peritheciis dense sparsis profundiuscule in parenchymate nidulantibus, epidermidem pustulatim elevato-laceratam efficientibus, minutis, 100–120 μ. diam., atris, subglobosis, ostiolo impresso pertusis; sporulis ellipticis, utrinque acutis ac uniguttulatis, 6–8 ≃ 3–4, hyalinis. 619

Hab. in foliis dejectis emortuis Hoyæ carnosæ domi cultæ, Buenos Aires in Argentina.

241. **Phoma Bolleana** Thüm. Contr. F. Litor. n. 168. Tab. I. fig. 18. — Peritheciis dense gregariis, prominulis, mediis, globosis, atris, ostiolatis, epiphyllis, postremo etiam hypophyllis in maculis magnis, exaridis, irregularibus, demum dilaceratis, candidis, dilute fusco-marginatis; sporulis minutissimis, ovoideo-globosis, 1,5–2 ≃ 1–1,6, hyalinis. 620

Hab. ad folia viva Hoyæ carnosæ epidemice, Gorizia in calidariis. — «An *Phyllosticta?*».

242. **Phoma fœdata** (Lév.) Sacc. *Sphæropsis fœdata* Lév. Ann. Sc. Nat. p. 63. — Sparsa vel gregaria; peritheciis globosis, glabris, 621

nigris, epidermide lacerata, nigro-maculata obtectis; ostiolis exsertis conicis pertusis; sporulis ellipsoideis, hyalinis.

Hab. in foliis Hoyæ Wallichianæ, in India orientali.

243. **Phoma millepunctata** Penz. et Sacc. F. Mortol. n. 20. Tav. IV, fig. 8. — Peritheciis hypodermicis, minutissimis, gregiformibus, depressis; ostiolo amplo, haud papillato, 160-170 μ. diam.; sporulis majusculis, 13-16 ≃ 6-7,5, oblonge ellipticis, utrinque obtusis, hyalinis, eguttulatis; basidiis brevibus, simplicibus, hyalinis, dein evanidis, 6-8 ≃ 3-4. 622

Hab. in petiolis Araliæ pulchræ, Mortola in Ital. bor.

244. **Phoma leucostigma** (DC.) Sacc. Mich. I. p. 259. Ann. Sc. nat. 1846, p. 296 *Sphæropsis leucostigma* DC. Fl. fr. VI. p. 144. — Peritheciis sparsis, innatis, convexis, prominulis, levibus, nigris, ostiolis pertusis albis; sporulis oblongis, 10-12 ≃ 3-4, 2-guttulatis, hyalinis, basidiis sursum attenuatis, subæquilongis suffultis. 623

Hab. in foliis dejectis Hederæ Helicis, Evonymi japonici, Buxi, Quercus, in Gallia, Italia, Germania.

245. **Phoma Candollei** (Berk. et Br.) Sacc. *Sphæropsis Candollei* Berk. et Br. Kickx. I. 402. *Sphæria Buxi* DC. — Peritheciis gregariis, amphigenis, majusculis, innato-erumpentibus; sporulis oblongis, magnis, 35 ≃ 12, utrinque obtusiusculis, nubilosis, hyalinis, basidiis brevissimis, hyalinis suffultis. 624

Hab. in foliis dejectis Buxi sempervirentis, in Gallia, Belgio, Italia, Britannia et in Amer. bor. — Basidiis brevissimis, sporulis numquam medio contractis, a *Diplodiæ* pusionibus mox dignoscitur.

246. **Phoma Mirbelii** (Fr.) Sacc. Mich. II. p. 90. *Sphæria Mirbelii* Fr. Linn. 1830, p. 548. *Sphæropsis Mirbelii* Lév. Ann. Scienc. nat. 1846, p. 296. — Peritheciis tectis, papuloso-prominulis, erumpentibus, initio subastomis, dein rimose ruptis, atro-fulvis; sporulis obovoideis, basi sub-apiculatis, 15-18 ≃ 8-9, nubilosis, hyalinis, basidiis brevissimis, papilliformibus suffultis. 625

Hab. in foliis exsiccatis Buxi sempervirentis, in Gallia et Italia. — Teste Fuckel, huc spectat *Sphæria delitescens* Wallr. et *Phacidium Buxi* Lasch.

247. **Phoma delitescens** (Wallr.) Sacc. *Sphæria delitescens* Wallr. Fl. crypt. n. 3752. — Peritheciis exiguis, tenerrimis, subrotundis, primum hypophlœode-latitantibus dilute fuscescentibus, dein nigrescentibus, summam epidermidis pelliculam varie scissam elevantibus illamque translucentibus, demum vertice aperto hiantibus. 626

Hab. ad foliorum Buxi sempervirentis utramque faciem et ramos in Thuringia. — « An diversa a *Ph. Mirbelii* ? ».

248. **Phoma phacidioides** Sacc. Mich. II. p. 274. — Peritheciis amphigenis, plerumque vero hypophyllis, globoso-lenticularibus, 1/3 mill. diam., innatis, dein epidermide laciniatim fissa erumpentibus; sporulis ellipsoideis, inæquilateralibus, 10 ≃ 6, granulosis, hyalinis. 627

Hab. in foliis emortuis Buxi sempervirentis, in Italia boreali. — Præcipue sporulis tertia parte minoribus a *Ph. Mirbelii* distinguenda.

249. **Phoma ilicella** Sacc. et Penz. Mich. II. pag. 618. — Peritheciis hypophyllis, gregariis, epidermide velatis, globoso-depressis, 1/5 mill. diam., late pertusis, contextu parenchymatico ochraceo-fusco; sporulis oblongis, utrinque rotundatis, 2-4-guttulatis v. nubilosis, 20-26 ≃ 6-7, hyalinis; basidiis subnullis. 628

Hab. in foliis emortuis Ilicis Aquifolii, Le Sapey (Isère) in Gallia (Therry). — Perithecia subinde imperfecta et tunc ad *Gloeosporium* vergentia.

250. **Phoma ilicicola** (C. et E.) Sacc. *Sphæropsis ilicicola* C. et E. in Grevillea, t. 96, f. 28. — Peritheciis gregariis, atris, nitidulis, erumpentibus, epidermide cinctis; sporulis ovoideis, hyalinis, 10-12 ≃ 6-7. 629

Hab. in foliis Ilicis, amphigena, New Jersey in America boreali (Ellis).

251. **Phoma Ilicis** Desm. Exs. n. 1290, Kickx Fl. I. p. 440. — Peritheciis punctiformibus, velatis, nigris, globulosis, prominulis, poro pertusis; sporulis cylindraceis, utrinque rotundatis, 12-15 ≃ 3, hyalinis, utrinque sæpe 1-guttatis. 630

Hab. in foliis emortuis Ilicis Aquifolii in Gallia, Belgio, Italia. — ***Ilicis opacæ**: sporulis 18 ≃ 2 1/2, in Carolina (Ravenel). — ***Magnoliæ**: sporulis cylindraceis, utrinque rotundatis, 15-18 ≃ 2 1/2-3, 2-guttulatis, hyalinis, basidiis brevissimis suffultis. In foliis languidis Magnoliæ grandifloræ, in Gallia. — ***Evonymi japonici**: sporulis, 12-14 ≃ 2, 2-guttatis, hyalinis. In foliis ejusdem, Treviso, Gorizia in Italia boreali.

252. **Phoma phacidiella** Sacc. *Sphæropsis phacidioides* C. et Ell. Grevill. t. 96, f. 29. — Peritheciis majusculis erumpentibus, subglobosis, atris, epidermide radiatim fissa cinctis; sporulis cylindraceis, obtusis, hyalinis, 30-35 ≃ 4. 631

Hab. in foliis Ilicis Aquifolii, New Jersey in America boreali — *Phomæ cylindrosporæ* affinis.

253. **Phoma pumila** (Mong.) Sacc. *Sphæropsis pumila* Mong. in Lév. Ann. Sc. Nat. p. 256. — Peritheciis punctiformibus, epiphyllis, gregariis, globosis, basi applanatis, nigris, intus cinereis, epidermide rupta cinctis; ostiolis vix distinctis; sporulis elongatis sub-linearibus continuis, utrinque obtusis, minutis. 632

Hab. ad folia Ilicis Aquifolii, in Vogesis.

254. **Phoma leucospila** Pass. in Hedw. 1878, p. 172. — Peritheciis minutis depressis, atris, in macula exigua albicante epiphyllis; sporulis parvulis, oblongo-ellipsoideis, biguttulatis, hyalinis. 633

Hab. ad folia mox decidua Sorbi hybridæ Hort. in Italia boreali.

255. **Phoma Sorbi** (Lasch) Sacc. *Septoria Sorbi* Lasch sec. Cooke Handb. n. 1330. — Epiphylla; peritheciis minutis, aggregatis, semi-innatis, subnigris; sporulis ellipticis, utrinque leniter acutis et fere amygdaliformibus. 634

Hab. in foliis Sorbi Aucupariæ, in Britannia.

256. **Phoma Laurocerasi** Lév. Ann. Sc. nat. 1846, p. 296. — Peritheciis amphigenis, sparsis, innatis, globosis, nigris, intus albis, epidermide cinctis; ostiolis nullis vel papillatis; sporulis ellipticis, obtusis, hyalinis, stipitatis. 635

Hab. ad folia Pruni Lauro-Cerasi, in Gallia.

257. **Phoma epiphylla** (Lév.) Sacc. *Sphæropsis epiphylla* Lév. Ann. Sc. nat. 1846, p. 296. *Sphæria Laurocerasi* Desm. Exs. fasc, 24. — Peritheciis globulosis, nigris, nitidis, sparsis, minutis, vix $^1/_4$ mill. diam., tectis, prominentibus, dein collabascentibus, poro latiusculo et inæquali pertusis; nucleo albo-griseo; sporulis cylindraceis, rectis, obtusis, 4-guttulatis, hyalinis (« 8-10 ≃ 2, biguttatis »). 636

Hab. in foliis Pruni Lauro-cerasi, P. lusitanicæ, Rhamni Alaterni, in Gallia et Italia.

258. **Phoma prunicola** Schw. Syn. Am. bor. n. 2169. — Entophylla; epidermide cinerescente formante maculas latas irregulariter effusas in folio, demum rupta, perithecia in conspectum veniunt ovata, rotunda aut quadrato-difformia, nigro-fusca, ore rotundo primum pertusa, demum latius aperta, et forma oris irregulari; stromate interno manifesto grumoso-fuscescente. 637

Hab. rarius in foliis dejectis, Pruni virginianæ aut serotinæ, Bethlehem in America boreali.

259. **Phoma piceata** Sacc. *Ph. picea* B. et Br. Ann. N. H. p. 399, nec Pers. — Peritheciis hypophyllis, spuriis, piceo-brunneis, con- 638

vexis, supra epidermidi connexis; sporulis hyalinis, oblongo-ellipsoideis, biguttulatis.

Hab. in pag. inf. foliorum Rosæ, in Britannia.

260. **Phoma vixvisibilis** Thüm. in Flora 1878, p. 179. — Peritheciis 639
minutissimis, hypophyllis, dense gregariis, occultis, subglobosis, vix prominulis, atris; sporulis minutis, hyalinis, ellipsoideis, utrinque rotundatis, simplicibus, enucleatis; sterigmatibus minimis, 2,5 ≃ 1,5.

Hab. ad folia arida Quercus stellatæ, Aiken in Carolina austr. (H. W. Ravenel).

261. **Phoma Quercus** (Lamb.) Sacc. *Sphæropsis Quercus* Lamb. Myc. 640
Belg. III. p. 60. — Peritheciis subcutaneis, innatis, nigro-griseis, vertice poro rotundo distincto pertusis, hinc inde aggregatis; sporulis ovoideis, hyalinis, eguttulatis.

Hab. in pag. sup. foliorum siccorum Quercus, prope Liege in Belgio.

262. **Phoma Castagnei** (Mont.) Sacc. *Sphæropsis Castagnei* Mont. 641
Syll. n. 961 et Cent. VI. n. 38, in Ann,, 3, XI. p. 50. — Epi-raro hypophylla; peritheciis globosis, minutis, atris, nitidis, tectis, in macula marginali irregulari cinereo-lilacina fusco-limitata sparsis, prominulis; sporulis ovoideis, continuis.

Hab. in foliis Quercus Ilicis, Montaud-lez-Miramas (Castagne).

263. **Phoma dendritica** Thüm. in Flora 1878, p. 179. — Peritheciis 642
epiphyllis, numerosissimis, dense gregariis; maculas magnas, fuscas, plus minusve orbiculatas, sæpe confluentes, dendriticas, stramineo-marginatas formantibus hemisphæricis, prominulis, nitidis, fuscis; sporulis cylindraceis, rectis, simplicibus, enucleatis, utrinque subobtusatis, hyalinis, 4 ≃ 1,5.

Hab. ad folia viva languidave Quercus nigræ, Aiken in Carolina austr. (H. W. Ravenel).

264. **Phoma innumerabilis** Thüm. Myc. univ. n. 1079. — Peritheciis 643
hypophyllis, numerosissimis, dense gregariis, maculas maximas, sæpe confluentes, griseo-fuscas formantibus, globosis, minutis, immersis, granulosis, fusco-atris; sporulis cylindricis, utrinque subrotundatis, plerumque enucleatis, hyalinis, 2-3 ≃ 1,5.

Hab. in foliis emortuis Quercus stellatæ, Aiken in Carolina (Ravenel).

265. **Phoma nervisequa** (Cooke) Sacc. *Sphæropsis nervisequa* Cooke 644

in Grevillea. — Peritheciis atris, hysteriiformibus, sparsis; sporulis ellipticis, hyalinis, 10-12 ≃ 5.

Hab. in nervis foliorum Quercus Catesbeyi, Aiken in Carolina.

266. **Phoma ocellata** (Lév.) Sacc. *Sphæropsis ocellata* Lév. Ann. Sc. Nat. 1846, p. 297. — Peritheciis hypophyllis, sparsis, innatis, epidermide tectis; ostiolis prominulis pertusis, albis; sporulis oblongo-linearibus, obtusis, hyalinis. 645

Hab. ad folia Quercuum et Mespili nitidæ, pr. Parisios.

267. **Phoma discosiæformis** Cooke et Harkn. in Grevillea n. 64. — Epiphylla, subgregaria; peritheciis parvulis, superne nudis, convexo-applanatis, nitidis, atrofuscis; sporulis minutis, ovalibus, continuis, hyalinis, 5 ≃ 2,5. 646

Hab. in foliis Quercus aquifoliæ, in California.

268. **Phoma tularostoma** (Ehrenb.) Fr. S. M. II. p. 548. *Nœmaspora tularostoma* Ehr. F. Cham. n. 14, t. 18, f. 7. — Hypophylla; ostiolo tumido fusco, primo centro candido clauso, demum aperto, margine interno candido; sporulis candidis sine lege rejectis. 647

Hab. in foliis Myrtorum et Lardizabalarum, in Chili. — In statu maturo sicca epidermis, tamquam tympani membrana extensa, rumpitur locumque cedit foramini rotundo aut oblongo, quod extus fuscum, intus candidum; tumidum vero servat marginem; dissecto a vertice perithecio, apparent sporulæ, parietibus adglutinatæ, quas interdum tamquam in membranulam confluxas vidit Ehrenberg.

269. **Phoma mucipara** Penz. et Sacc. F. Mortol. n. 21. Tav. IV. fig. 9. — Peritheciis in foliorum superficie sparsis, subsuperficialibus, hemisphæricis, duris, carbonaceis, aterrimis; ostiolo manifestissimo, sed haud prominente; contextu parenchymatico; nucleo albo; sporulis cylindraceis, utrinque rotundatis, rectis vel paullulum curvatis, eguttulatis, plasmate granuloso, incolore farctis, muco hyalino ex basidiorum dissolutione orto obvolutis, 18-22 ≃ 3,5-4,5. 648

Hab. in foliis delapsis Eucalypti sp. Mortola in Ital. bor.

270. **Phoma eucalyptidea** Thüm. Contr. Myc. Lus. n. 563. — Peritheciis hypophyllis, sparsis, conico-elevatis, primo tectis, demum prominulo-erumpentibus, nigris, minutis; sporulis ellipsoideis, utrinque rotundato-acutatis, hyalinis, binucleatis, 5-9 ≃ 3,5-5, basidiis brevibus, flexuosis, hyalinis fultis. 649

Hab. ad folia viva vel languescentia Eucalypti Globuli, Choupal pr. Coimbra in Lusitania (Moller).

271. **Phoma Molleriana** (Thüm.) Sacc. *Sphæropsis Molleriana* Thüm. Contr. Myc. Lus. n. 323. — Peritheciis amphigenis, numerosissimis, magnis, dense gregariis, primo sub epidermide nidulantibus, demum poro centrali apertis, postremo liberis dispansisve, concavis, turgidis, nitidis, castaneo-atris; sporulis cylindricis, simplicibus, utrinque subobtuso-rotundatis, rectis, hyalinis, eguttulatis, 13–15 ≃ 3. 650

Hab. ad folia arida prostrata Eucalypti Globuli, Pinhal de Valle de Canas pr. Coimbra in Lusitania (Moller), et in America boreali (Cooke).

272. **Phoma Heteromeles** Cooke et Harkn. in Grevillea n. 64. — Epiphylla; peritheciis subsparsis, semi-immersis, sursum nudis, conico-convexis, atris, nitidis; sporulis elongato-ellipticis, continuis, hyalinis, plerumque binucleatis, 10–12 ≃ 3. 651

Hab. in foliis emortuis Heteromeles, in Carolina.

273. **Phoma ustulata** B. et C. North Am. Fungi n. 384. — Maculis helvolis seu rufo-brunneis; peritheciis minutis, punctiformibus; sporulis utrinque attenuatis, breve fusoideis, 7–8 μ. longis. 652

Hab. in foliis Vitis æstivalis, in America boreali.

274. **Phoma viticola** (Cooke) Sacc. *Sphæropsis viticola* Cooke Grev. XII. p. 22. — Foliicola gregaria; peritheciis subglobosis, demum centro depressis, fuscis; sporulis sublanceolatis, rectis, curvulisve, hyalinis, 22–24 ≃ 5–6,5. 653

Hab. in foliis Vitis, in Carolina austr (Ravenel).

275. **Phoma succedanea** Passer. Erb. critt. Ital II. n. 1378. — Peritheciis epiphyllis, superficialibus, in maculis exaridis, fuscis, irregularibus, gregariis vel crebre sparsis, globulosis, atris; sporulis ellipticis, nucleolatis, hyalinis vel, acervatim visis, fumidulis, 5 ≃ 2,5. 654

Hab. in foliis languentibus Vitis viniferæ, in maculis *Peronosporæ,* Vigheffio prope Parma (Passerini).

276. **Phoma Negriana** Thüm. Pilz. Weinst. p. 185. — Peritheciis minutis, epiphyllis, dense gregariis, hemisphærico-prominulis, in areolis foliorum griseo-albicantibus, subtus fuscis, variis inordinate dispositis; sporulis cylindraceo-ellipsoideis, utrinque obtusulis, sæpe enucleatis, raro 2-guttatis, 5-7 ≃ 3-3,5, hyalinis 655

Hab. in foliis adhuc vivis Vitis viniferæ, morbo dicto *Gialume* laborantibus, Casale Monferrato in Ital. bor. (F. Negri).

277. **Phoma ampelogena** Sacc. *Coniothyrium ampelinum* Cooke in Grevillea. — Sparsa; peritheciis minutis, inconspicuis, brunneis, membranaceis, hemisphæricis; sporulis ovatis, hyalinis, 4 ≃ 3. 656

Hab. in foliis Vitis æstivalis, socia *Peronospora viticola.* Aiken in Carolina.

278. **Phoma maculifera** (B et C.) Sacc. *Phoma macularis* B. et C. 657
N. Am. F. n. 389 nec Desm. — Maculis orbicularibus, brunneis, immarginatis; peritheciis irregularibus, centralibus; sporulis oblongis subcymbiformibus, 10 μ. longis.

Hab. in foliis Diplopappi, Alabama in Amer. boreali (Beaumont).

279. **Phoma macularis** Desm. 22 Not. p. 7. — Amphigena, maculæ 658
minutæ piceæ insidens; peritheciis sparsis, nigris, nitidis, $^1/_5$ mill. diam., rotundatis, convexis, utrinque prominentibus, intus brunneis, quandoque linea atra circumscriptis; ostiolo papillæformi; sporulis oblongis, 7,5 ≃ 2,5.

Hab. in foliis exsiccatis Hibisci syriaci, in Gallia.

280. **Phoma leptidea** (Fr. Curr.) Sacc. *Sphæria leptidea* Fr. S. M. 659
II. p. 522. Curr. Simpl. Sphær. p. 332. — Gregaria, velata, leviter convexa, collabascendo umbilicata, atra, pertusa; sporulis subcylindricis, rectis curvulisve, hyalinis, 5 μ. longis (sec. Curr.), aut 8 ≃ 2 (sec. Fuck.).

Hab. in foliis dejectis Vaccinii Vitis idææ, in Suecia et Germania. Conf. Syll. I. p. 535.

281. **Phoma? Andromedæ** Schw. Syn. Am. bor. n. 2168. — Subtecta, 660
entophylla, epidermide circumcirca cinerescente; formatur macula indeterminatim effusa, in qua perithecia irregulariter sparsa aut aggregata sunt, difformia, nigra, ovato-applanata, multilocularia; epidermide demum rupta, ora peritheciorum irregularia prominent; magnitudine peritheciorum variante, vix unquam lineam et dimidiam excedit.

Hab. in foliis dejectis Andromedæ axillaris, Salem in Amer. bor. — Paginam aversam infestat.

282. **Phoma glomerosa** (Lév.) Sacc. *Sphæropsis glomerosa* Lév. Ann. 661
Sc. Nat. p. 63. — Erumpens, hypophylla; peritheciis cæspitosis, subglobosis, lævibus, nigris; ostiolis conicis, prominulis; sporulis perexiguis, continuis, ellipsoideis, hyalinis.

Hab. ad folia Ericinææ ignotæ, in Peruvia (Mathews).

283. **Phoma Cinnamomi** Sacc. Mich. II. p. 374. — Peritheciis sparsis, 662
epiphyllis, globoso-conoideis, $^1/_5$ mill. diam., nigris; sporulis ellipsoideo-oblongis, 6-7 ≃ $2^1/_2$, 2-guttulatis, hyalinis.

Hab. in foliis semi-exsiccatis Cinnamomi dulcis, in horto Patavino.

284. **Phoma nobilis** Thüm. Contr. Myc. Lus. n. 562. — Peritheciis 663
epi-raro etiam hypophyllis, conico-prominentibus, minutis, sparsis, griseo-atris, longe diu epidermide tectis, in foliorum vivorum partibus arescendo fusco-griseis, plerumque marginalibus; sporulis ovoideis, utrinque rotundatis, enucleatis, dilute fuscidulis, 15 ≃ 6.

Hab. ad folia viva Lauri nobilis, Cerca de St. Bento prope Coimbra in Lusitania (Moller).

285. **Phoma protuberans** Lév. Ann. Sc. Nat. 1846, p. 281. — Peri- 664
theciis amphigenis, sparsis, innatis, globosis, prominentibus, intus cinereis, ostiolis conicis pertusis; sporulis ovato-oblongis, continuis, hyalinis.

Hab. ad folia decidua Lycii europæi, in horto Parisiensi. — E descriptione *Leptothyrium protuberans* Sacc. diversum videtur.

286. **Phoma? Calycanthi** Schw. Syn. Am. bor. n. 2166. — Multilo- 665
cularis-subrotunda, plana, confluens, fusca, epidermidi innata, tecta; ostiolis indistinctis, sparsis; rarissime aperta, satis magna, bilinearis; folia maculat.

Hab. frequens in foliis jam semi-emortuis Calycanthi, in America boreali.

287. **Phoma crateriformis** (Dur. et Mont.) Sacc. Mich. II. p. 90. *Asco-* 666
spora crateriformis Dur. et Mont. Fl. Alg. I. p. 590. — Peritheciis amphigenis, gregariis, innato-erumpentibus, atro-nitidis, apice poro amplo pertusis, tandem elabentibus foveolamque relinquentibus; sporulis cylindraceis, utrinque obtusiusculis, 15 ≃ 2-2¼, guttulatis, hyalinis.

Hab. in foliis Phillyrearum, in Algeria et in Gallia.

288. **Phoma Oleæ** (DC.) Sacc. Mich. II. p. 91. *Sphæria Oleæ* DC. Fl. 667
Fr. VI. p. 136. *Hendersonia Oleæ* Desm. *Diplodia Oleæ* De Not. — Peritheciis gregariis, amphigenis, globosis, innatis, atris, duris; ostiolo erumpente, conico, subinde longiusculo; sporulis oblongo-cylindraceis, subrectis, utrinque subrotundatis, 18-25 ≃ 3,5-5, 3-4-guttatis granulosisve, hyalinis; basidiis 18-30 ≃ 3, bacillaribus, facile evanescentibus.

Hab. in foliis dejectis Oleæ europææ, in Italia, Gallia, Dalmatia, Germania. — Forma **Hederæ** Curr. Simpl. Sphær. p. 332, Penz. F. Mortol. n. 22: sporulis 16,5-20 ≃ 3-3,5. In foliis Hederæ in Britannia et Italia.

289. **Phoma syringella** Fuck. Symb. mycol. p. 133 (sub nom. *Ph.* 668
Syringæ). — Peritheciis in macula fusca gregariis, hemisphæricis,

demum depressis, papillatis, *Pleosporæ herbarum* magnitudine, atris; sporulis ovato-oblongis, biguttulatis, minutis, hyalinis, 8 ≈ 2.

Hab. in foliis putrescentibus Syringæ vulgaris, in Germania, Austria et Italia boreali, socia *Pleospora Syringæ* Fuck.

290. **Phoma petiolina** Sacc. Mich. I. p. 523. — Peritheciis gregariis, 669
subcutaneis, globoso-depressis, $^1/_8$ mill. diam., pertusis; sporulis ellipsoideis v. subreniformibus, 8–11 ≈ $3^1/_2$, 2-pluriguttulatis, hyalinis (basidiis non visis).

Hab. in petiolis putrescentibus Fraxini, Rouen in Gallia (Letendre). — A *Ph. petiolorum* Desm. sporulis majoribus differt.

291. **Phoma subnervisequa** Des. 22 Not. pag. 7. — Amphigena, ma- 670
culis indeterminatis, albidis vel helvolis; peritheciis majusculis, subnervisequis, rotundatis, $^1/_5$–$^1/_4$ mill. diam., quandoque oblongis, $^1/_2$ mill. long., convexis, prominentibus, nigris, subnitidis, intus griseo-ochroleucis, tandem circumscisso-deciduis; ostiolo papillæformi; sporulis ovoideo-oblongis, 10–15 μ. longis.

Hab. in foliis siccis Evonymi latifolii, in Gallia.

292. **Phoma cylindrospora** (Desm.) Sacc. Mich. I. p. 527. *Sphæro-* 671
psis cylindrospora Desm. Ann. Sc. nat. 1849, p. 277. — Peritheciis punctiformibus, atris, denique collabentibus, atro-nitidulis, gregariis, globosis, epidermide tectis, pertusis; sporulis bacillaribus, utrinque obtusis, 20–25 ≈ 2–3, rectis v. curvulis, hyalinis; basidiis filiformibus, simplicibus v. furcatis, 15–16 ≈ $1^1/_2$–2, hyalinis.

Hab. in foliis petiolisque Hederæ, Vincæ, Quercus Ilicis, Evonymi japonici, in Gallia, Belgio, Italia, Germania, Austria. — Forte hujus varietas est *Ph. Evonymi* Desm., cujus tamen diagnosim invenire non potui.

293. **Phoma Ralfsii** (B. et Br.) Sacc. *Sphæropsis Ralfsii* B. et Br. 672
Ann. N. H. n. 419. — Peritheciis sparsis, punctiformibus, valde collabascentibus, hinc peziziformibus; sporulis, madore expulsis, perexiguis, oblongis.

Hab. in foliis Hederæ, Aberystwyth, in Britannia.

294. **Phoma Visci** Sacc. Mich. I. p. 125. — Peritheciis in maculis 673
foliorum arescendo flavicantibus aggregatis, epidermide velatis, dein erumpentibus, subglobosis, papillulatis, atris, $^1/_4$–$^1/_5$ mill. diam., solidiusculis; sporulis oblongo-ovatis, rectis, 5 ≈ $2^1/_2$, 2-guttulatis, hyalinis.

Hab. in foliis Visci albi, ad Prater Vindobonæ (P. Magnus). — A *Phyllostictis* peritheciis pachydermaticis recedit.

295. **Phoma Tulipiferæ** Schw. Syn. Am. bor. n. 2167. — Pustula 674

applanata, pluribus confluentibus, nigro-fuscis majusculis, satis elevatis; ostiolis indistincte formatis.

Hab. rarius in foliis Liriodendri in pagina inferiore sed ubi adest copiosa, Bethlehem in America boreali.

296. **Phoma petiolata** (Cooke) Sacc. *Sphæropsis petiolata* Cooke Rav. Fungi Amer. n. 147, et in Grev. — Sparsa, tecta; peritheciis subglobosis, prominulis, apice perforatis; sporulis ellipticis, hyalinis, 12–15 = 6,6. 675

Hab. in petiolis Platani, in Carolina austr. (Ravenel).

297. **Phoma Calotropidis** (Thüm.) Sacc. *Sphæropsis Calotropidis* Thüm. in Grevillea. — Maculas magnas, epiphyllas, asteromoides, plus minusve orbiculatas, late effusas et sæpe confluentes, griseo-olivaceas, fere subpulveraceas formans; peritheciis densissime gregariis, numerosis, minutis, punctiformi-conicis, atris; sporulis cylindrico-ellipsoideis, vertice acutatis, basi angustato-obtusatis, simplicibus, 20–30 = 6, pallidissime cinerescentibus in sterigmatibus sublongis, tenuibus, rectis vel subarcuatis, 10–18 μ. longis. 676

Hab. ad folia languida Calotropidis proceræ, prope Berber in Nubia (Schweinfurth).

298. **Phoma Elæagni** Sacc. Mich. I. p. 54. — Peritheciis amphigenis, innato-erumpentibus, globosis, 130 μ. diam., papillulatis, nigris; sporulis elliptico-cylindraceis, 8–11 = 3, minute 2–3-guttulatis, hyalinis, basidiis filiformibus, 20–25 = 1, curvulis suffultis. 677

Hab. in foliis dejectis Elæagni reflexi, in horto botanico Patavino.

299. **Phoma Trabutiana** Sacc. in litt. ad cl. Trab. — Peritheciis amphigenis et sæpius hypophyllis, in areis arescendo dealbatis, laxe gregariis, globoso-depressis, $^1/_{10}$–$^1/_8$ mill. d., poro pertusis, epidermide initio velatis; sporulis oblongis, utrinque obtusiusculis, rectis, 2-guttulatis, 7–9 = 2,5–3, hyalinis; basidiis bacillaribus, fasciculatis, 15–20 = 1,5, rarius a basi furcatis. 678

Hab. in foliis Carolineæ macrocarpæ, prope Alger (Trabut). — Spermogonium *Diaporthes* nondum cognitæ.

300. **Phoma cincta** B. et C. North Amer. Fungi n. 391. — Irregularis, depressa, materie alba cincta; sporulis oblongis, angustis, 6–8 μ. long. 679

Hab. in foliis Ulmi americanæ, in Carolina inferiore.

301. **Phoma discosioides** Sacc. Mich. I. pag. 526. — Peritheciis erumpenti-superficialibus, lenticularibus, pertusis, $^1/_6$ mill. diam., atro-nitidulis, minute contextis; sporulis botuliformibus, minutis- 680

simis, 3 × 1½, basidiis aciculatibus, apice subincrassatis, 10 × 1½, suffultis.

Hab. in pag. sæpius superiore foliorum Fagi silvaticæ, Rouen in Gallia (Letendre).

302. **Phoma cirratula** Desm. Exs. n. 53, Ser. II., 20 Not. p. 12. — Peritheciis majusculis, globosis, approximatis, nigris, innatis, convexis, demum collabascentibus; sporulis minutis, oblongis, rectis, biguttulatis, 7,5 × 2,5, cirrose expulsis. 681

Hab. in foliis languidis Daphnes Laureolæ, in Gallia.

303. **Phoma daphnea** (Preuss) Sacc., *Gerulajacta Daphnea* Preuss Hoyersw. n. 315. — Peritheciis membranaceis, hemisphæricis, atris; nucleo subalbo; basidiis longis, clavæformibus, albis; sporulis oblongis, subfuscis, interdum cum guttulis oleosis. 682

Hab. in foliis Daphnes, Hoyerswerda.

304. **Phoma Bergii** Speg. Fung. Arg. Pug. n. 100. — Peritheciis sparsis, subepidermicis, 110-120 μ. d., lenticularibus, atris, membranaceis, coriaceis, ostiolo impresso pertusis; contextu parenchymatico, fuligineo; sporulis ellipticis vel subglobosis, utrinque obtusissime rotundatis, ac 1-guttulatis, hyalinis, 3-4 × 1½-2. 683

Hab. ad folia languida vel emortua Chuquiragæ erinaceæ, prope el Rio Negro en Patagonia (C. Berg).

305. **Phoma Aucubæ** West. Exs. n. 1373. — Peritheciis exiguis, copiosis, hinc inde sparsis, atro-nitidis, innato-erumpentibus, poro pertusis; nucleo albido; sporulis anguste ovatis, acutiusculis, 5 × 2,5. 684

Hab. in foliis Aucubæ japonicæ, in Belgio. — Forma **ramulicola.** In ramis ejusdem in Italia et Belgio.

306. **Phoma Acmella** Berk. in Fl. New Zeal. p. 193, t. CVI. f. 10. — Epidermide brunneola tecta; peritheciis depressis; sporulis variis oblongis, utrinque leviter attenuatis, 7-10 × 4. 685

Hab. in foliis Corynocarpi levigatæ, socia *Sphæria Acetabulo,* Te Apiti in Nova Zelandia (Colenso).

307. **Phoma atomispora** Cooke Grev. XII. p. 22. — Peritheciis sparsis, prominulis, atris, subglobosis, pertusis; sporulis minutissimis, profusis, hyalinis, ovoideo-ellipticis, 3 × 1,5. 686

Hab. in petiolis nervisque Magnoliæ, in Carolina australi (Ravenel).

308. **Phoma minima** (B. et C.) Sacc. *Sphæropsis minima* B. et C. North Amer. F. n. 418. — Maculis pallide brunneis, subcircularibus; peritheciis minutis, tectis; sporulis breviter obovatis, 10 μ. longis. 687

Hab. in foliis subvivis Aceris rubri, New England et North Greenbush in Amer. bor. (Sprague et Peck). — Observante Peckio: perithecia sunt epiphylla; sporulæ interdum subangulosæ, muco involutæ; maculæ foliorum sæpius sunt obscurius marginatæ. — «An *Phyllosticta?*».

309. **Phoma Malpighiæ** (Mont.) Sacc. *Sphæropsis Malpighiæ* Mont. Cent. VI. n. 40, l. c. — Epiphylla; peritheciis gregariis, punctiformibus, globoso-depressis, fuscis, epidermide atrata tectis, in macula pallida prominentibus; sporulis pedicellatis oblongo-ellipticis, 15 ≃ 5, hyalinis, continuis, guttulas binas oleinas foventibus. 688

Hab. in foliis Malpighiæ cujusdam, in horto Massiliensi in Gallia (Castagne).

310. **Phoma circumscripta** Cooke in Grevillea. — Maculis exaridis, brunneo-cinctis; peritheciis atris, nitidis; sporulis ellipticis, hyalinis, 7 ≃ 2,5. 689

Hab. in foliis emortuis Bumeliæ, Darien Georgiæ in Amer. boreali (Ravenel).

311. **Phoma maculans** (B. et C.) Sacc. *Sphæropsis maculans* B. et C. North Amer. F. n. 417(bis). — Maculis candidis, rufo-marginatis; peritheciis punctiformibus; sporulis obovatis, brevibus, 12–13 ≃ 9–10. 690

Hab. in foliis Bumeliæ, Alabama in Amer. bor. (Peters).

312. **Phoma ligustrina** Thüm. Contr. F. Lit. n. 314. — Peritheciis epiphyllis v. amphigenis, pertusis, numerosis, dense gregariis, punctiformibus, conico-hemisphæricis, nitido-atris; sporulis minutis, cylindraceis, rectis, utrinque rotundatis, enucleatis, hyalinis, 2–3 ≃ 1,5. 691

Hab. in foliis putridis Ligustri japonici, Gorizia. — «An *Phyllosticta?*».

313. **Phoma helvola** B. et C. North Amer. F. n. 386. — Maculis helvolis definite marginatis; peritheciis minutis; sporulis minimis, breviter oblongis, $2^1/_2$–3 μ. longis. 692

Hab. in foliis Anonaceæ cujusdam, Texas in Amer. bor. (C. Wright). — «An *Phyllosticta?*».

314. **Phoma glœosporioides** Sacc. Mich. II. p. 145. — Peritheciis in partibus foliorum exsiccatis sparsis, hemisphæricis, 110 μ. diam., late pertusis; contextu laxe tenui-parenchymatico, fuligineo; sporulis breve fusoideis, inæquilateralibus, utrinque obtusiusculis, granulosis, hyalinis, 25 ≃ 7, basidiis teretibus, sporulâ dimidio brevioribus suffultis. 693

Hab. in pag. sup. foliorum coriaceorum Viburni, in Gallia austr. (Roumeguère).

315. **Phoma glandulosa** Cooke Rav. Fung. Amer. n. 142, Grev. t. 99, f. 9. — Sparsa vel subgregaria; peritheciis epidermide nigrificata tectis; sporulis ellipticis, hyalinis, 8 μ. longis. 694

Hab. in petiolis Ailanthi, Aiken in Carolina (Ravenel).

316. **Phoma Mahoniæ** Thüm. Contr. Mic. Litor. n. 161, t. I. f. 10. — Peritheciis dense gregariis, epiphyllis, raro amphigenis, mediis, globosis, nigris in maculis irregularibus, griseo-fuscis, postremo albis, exsiccatis; sporulis minutissimis, cylindrico-ellipsoideis, utrinque obtuso-rotundatis, hyalinis, 3–4 ≃ 1–1,5. 695

Hab. ad folia viva Mahoniæ Aquifolii, Gorizia.

317. **Phoma Mahoniana** Sacc. Mich. II. p. 90. — Peritheciis in partibus foliorum exsiccatis, laxe gregariis, globoso-depressis, 150 μ. diam.; contextu dense parenchymatico; sporulis oblongis, 8–10 ≃ 2, hyalinis; basidiis bacillaribus, 10–12 μ. long. 696

Hab. in foliis Mahoniæ Aquifolii, socia *Phyllosticta*, Toulouse in Gallia (Roumeguére). — Huc forte spectat *Ph. Mahoniæ* Lacaill. in Rev. Myc. II. p. 62 (nullibi descripta). A *Ph. Mahoniæ* Thüm. sporulis triplo majoribus differt.

318. **Phoma cinerea** Desm. 23 Not. p. 6. — Amphigena; maculis brunneis, dein cinereis, irregularibus; peritheciis minutissimis, numerosis, innato-prominulis, sparso-approximatis, quandoque subnervisequis, intus sordidis; ostiolo punctiformi; sporulis oblongo-cylindricis, rectis vel subcurvulis, 6–7,5 ≃ 1,5–2. 697

Hab. in foliis languescentibus Rhamni cathartici, in Gallia.

319. **Phoma myriocarpa** Dur. et Mont. Syll. n. 982. — Amphigena; peritheciis innatis, globosis, minimis, apice poro pertusis et in maculas polygonas atras confertim aggregatis; sporulis oblongis hyalinis, utrinque 1-guttatis. 698

Hab. in foliis deciduis Rhamni Alaterni, Alger (Durieu).

320. **Phoma? phyllogeneta** (Link) Sacc. *Combodia phyllogeneta* Link, Fr. Summa Veg. Scand. p. 422. — Peritheciis carbonaceis, fere liberis, astomis; nucleo gelatinoso-floccoso; sporulis magnis oblongis, continuis. 699

Hab. in foliis in Tropicis (Beyrich).

321. **Phoma lucida** (B. et C.) Sacc. *Sphæropsis lucida* B. et C. Cub. Fungi n. 565. — Peritheciis lucidis, gregariis, ad marginem macularum circinantibus; sporulis oblongis, utrinque leviter attenuatis, obtusiusculis, hyalinis, 12–13 μ. longis; basidiis æquilongis. 700

Hab. in pag. superiore foliorum emortuorum, in Cuba.

322. **Phoma erumpens** (B. et C.) Sacc. *Sphæropsis erumpens* B. et C. 701

Cub. Fung. n. 566. — Peritheciis paucis (6–10), in stromate parvo orbiculari congestis, rima dehiscentibus; sporulis oblongis, utrinque leviter attenuatis, obtusiusculis, hyalinis, 25 ≃ 7.

Hab. in pag. superiore foliorum putrescentium, in Cuba.

II. *In Dicotyledoneis herbaceis.*

A) Caulicolæ.

323. **Phoma xanthina** Sacc. Mich. I. p. 359. — Peritheciis gregariis, epidermide tumidula velatis, globoso-depressis, $^1/_5$–$^1/_3$ mill. diam.; ostiolo exiguo erumpente; contextu laxe parenchymatico, fuligineo; sporulis cylindraceis v. cylindraceo-oblongis, utrinque obtusis, curvulis, 15 ≃ 4-6, 2-3-guttulatis, singulis subhyalinis, coacervatis luteolis; basidiis obsoletis. 702

Hab. in caule putrescente Delphinii, prope Alençon in Gallia (C. C. Gillet).

324. **Phoma lirellata** Sacc. *Phoma lirelliformis* Sacc. Mich. II. p. 93, 337, nec Mich. I. p. 522. — Peritheciis gregariis, sæpeque seriatis, valde compressis, vix papillatis, subcutaneo-erumpentibus; sporulis breve fusoideis, 8–10 ≃ 2–2$^1/_2$, hyalinis, basidiis longis, bacillaribus, suffultis. 703

Hab. in caulibus Paeoniæ, Matricariæ et Lythri, in Gallia.

325. **Phoma thalictrina** Sacc. et Malbr. Mich. II. p. 617. — Peritheciis gregariis, subcutaneis, globoso-oblongis; sporulis ovato-oblongis, 6–7 ≃ 3–3,5, 2-guttatis, hyalinis. 704

Hab. in caule emortuo Thalictri aquilegifolii, Rouen in Gallia. — A *Phoma exigua* Desm. prorsus differre videtur. Spermogonium *Diaporthes*.

326. **Phoma demissa** Sacc. Fungi Ven. Ser. V. p. 201. — Peritheciis subcutaneis, e globoso-compressis, nigro-farctis; sporulis ovoideis, 6 ≃ 2$^1/_2$, 2-guttulatis, hyalinis; sterigmatibus filiformibus, hamatis, 20 ≃ 1. 705

Hab. in ramis Clematidis Vitalbæ, Selva in Italia bor., socia *Diaporthe demissa* Sacc., cujus est status spermogonicus.

327. **Phoma Clematidis** Sacc. Mich. II. pag. 616. — Peritheciis subgregariis, punctiformibus, nigris, epidermide initio velatis; sporulis cylindraceo-oblongis, curvulis, 14 ≃ 4. 706

Hab. in ramulis petiolisque Clematidis, Elbeuf près Rouen in Gallia.

328. **Phoma vulgaris** Sacc. Mich. I. p. 524. — Peritheciis gregariis, 707
globoso-lenticularibus, epidermide velatis, 100-120 μ. diam., poro pertusis; sporulis oblongo-reniformibus, 8-10 ≃ $2^1/_2$-3, eguttulatis, hyalinis.

Hab. in caulibus Clematidis Vitalbæ, socia *Pleospora vulgari*, et Medicaginis sativæ, Saintes et Rouen in Gallia.

329. **Phoma Dentariæ** (West.) Sacc. *Zythia Dentariæ* West. Bull. 708
Acad. Belg. II. n. 7, *Ascospora Dentariæ* (West.) Fuck. Symb. p. 95. — Peritheciis innato-emergentibus, epidermideque secedente superficialibus, membranaceis, sphæroideis v. ovoideis, denique collabascentibus; nucleo albido; sporulis ovato-cylindraceis, utrinque obtusis, hyalinis, 10 ≃ 2.

Hab. in caulibus siccis Dentariæ bulbiferæ, in Belgio et Germania. — Sec. Fuckel inessent asci 18 ≃ 14, sporidia cylindracea 8 ≃ 2 continentia. Sed cl. Oudemans in exemplaribus originalibus ascos nullos observavit.

330. **Phoma Lingam** (Tode) Desm. Ann. Sc. Nat. 1849, p. 281. *Sphæ-* 709
ria Lingam Tode Meckl. 2, fig. 116. — Gregaria; peritheciis difformibus convexis, mox depresso-concavis, rugosis, atris; ostiolo rudi decumbente; sporulis minutis, oblongis, 2-guttulatis, hyalinis, 5 μ. longis.

Hab. in caulibus Brassicæ oleraceæ aliarumque herbarum majorum, in Suecia, Germania, Gallia, Italia et Britannia. — Protea; mixta reperiuntur individua variæ ætatis et formæ. Perithecia juniora convexa, levia; mox collabentia, subplicata, difformia, angulata vel *Hysterii* instar elongata, labiata.

331. **Phoma Brassicæ** Thüm. in Hedwigia. — Peritheciis majuscu- 710
lis, dense aggregatis, sæpe confluentibus, hemisphæricis, plicatis, ex obscuro fusco-nigris, superficialibus; sporulis numerosis, cylindraceis, rectis, utrinque rotundatis, continuis, enucleatis, hyalinis, 3-4 ≃ 1,5-2.

Hab. in caulibus putridis Brassicæ oleraceæ, in Gallia et Germania (Libert).

332. **Phoma incrustans** (Nits.) Sacc. Mich. I. pag. 521. — Macula 711
stromatica effusa nigricante; peritheciis globoso-depressis, tectis; sporulis ovato-oblongis, 8-9 ≃ 2, 2-guttatis; basidiis filiformibus, 20 μ. longis.

Hab. in caulibus Brassicæ oleraceæ, in Gallia et Germania. — Spermogonium *Diaporthes*.

333. **Phoma Niesslii** Sacc. Mich. II. pag. 618. — Peritheciis dense 712

gregariis, subepidermicis, globoso-depressis, pertusis: sporulis oblongo-clavulatis, 6 ≈ 3, biguttulatis, hyalinis.

Hab. in caule Gentianæ luteæ, Le Sapey (Isère), socia *Ventoria Niessli* Sacc., cujus forte spermogonium (Therry).

334. **Phoma Gentianæ** J. Kühn Hedw. n. 1, 1883. — Peritheciis in matrice albo-maculata sitis, gregariis, initio tectis, dein erumpentibus, atro-brunneis, globosis vel depressis, papillatis, 150-300 μ. diam.: nucleo albo: sporulis ovato-oblongis, 7-8 ≈ 1,8-2,2, subinde curvulis, hyalinis. 713

Hab. in caulibus, foliis calycibusque Gentianæ ciliatæ, prope Fridrichroda in Thuringia.

335. **Phoma anguina** B. et C. F. N. Pac. Exp. n. 123. — Maculis parvis nigris, hic illic confluentibus: peritheciis depressis; sporulis subellipticis. 714

Hab. in caule emortuo Alysicarpi bupleurifolii, in freto Behring. — Cl. Berkeley in notula MS. scripsit: probabiliter ex Hong-Kong, nam *Alysicarpus* ad Boream tam altam non pervenit.

336. **Phoma punctulata** Cooke in Rav. Fung. Amer. n. 19 et in Grevillea. — Subgregaria: peritheciis epidermide nigricante tectis, centro albo-punctatis: sporulis ellipticis, binucleatis, 12 μ. longis. 715

Hab. in caulibus Leguminosarum, Gainesville, Florida in America boreali.

337. **Phoma anceps** Sacc. Mich. II. p. 273. *Phoma ambigua* Sacc. Mich. II. 91, nec Nits. — Peritheciis globoso-depressis, dein subumbilicatis, centro papillulatis, ¼ mill. d., initio epidermide velatis: sporulis cylindraceis, leniter curvis, 12-15 ≈ 2, utrinque obtusiusculis, granuloso-2-guttulatis, hyalinis. 716

Hab. in caulibus emortuis Medicaginis sativæ, in Gallia (Malbranche). — Inter *Phomam* et *Septoriam* media. Ab affini *Ph. bacillari* Sacc. differt peritheciis applanatis.

338. **Phoma Phaseoli** Desm. Descr. esp. nouv. Crypt. 1836, p. 13. *Ph. Desmazieri* Dur. et Mont. f. *Phaseoli*. — Peritheciis suborbicularibus, convexis, ore rotundo pertusis: sporulis oblongis, hyalinis, biguttulatis, 10-12 μ. longis. 717

Hab. in caulibus Phaseolorum, Lille in Gallia et in Belgio. — Ab affini *Ph. Spirææ* differt peritheciis minoribus, densioribus magisque prominulis. — Forma **Lepidii** Sacc. Sporulis teretiusculis, utrinque rotundatis, 7 ≈ 3, 2-guttatis, hyalinis, nonnumquam medio lenissime coarctatis. In caule Lepidii graminifolii, in Gallia.

339. **Phoma minutella** Sacc. et Penz. Mich. II. p. 618. — Peritheciis 718
gregariis, epidermide velatis fere punctiformibus, pertusis; sporulis allantoideis perexiguis, 4–5 ≃ 0,7–1, hyalinis, curvulis.

Hab. in caulibus Phaseolorum in cultis, Eure in Gallia, socia *Hendersonia hortensi* (Malbranche).

340. **Phoma anaxæa** Speg. Mich. I. pag. 482. — Stromate ramulos 719
corticatos vel decorticatos late ambiente atque lignum atro-nitens efficiente; peritheciis ligno immersis, atris, 150–180 μ. diam.; sporulis minutissimis, hyalino-chlorinis, subellipticis, utrinque obtusiusculis, 2–3 ≃ 1–1½.

Hab. in ramulis emortuis Onobrychis sativæ in alveo Plavis (Anaxi), in Ital. bor. — Spermogonium *Diaporthes*.

341. **Phoma hedysarella** Sacc. *Ph. Hedysari* Thüm. Pilz. Sibir. n. 720
784, nec Mont. — Peritheciis gregariis, primo tectis, demum liberatis, punctiformi-hemisphæricis, subelevatis, mediis, nigris; sporulis breve cylindricis, utrinque rotundato-truncatis, enucleatis, continuis, hyalinis, 5,5–6 ≃ 2.

Hab. in caulibus petiolisque emortuis Hedysari setigeri, prope Minussinsk in Sibiria asiatica. — A *Phoma herbarum* West., ut videtur, bene distincta.

342. **Phoma Hosackiæ** C. et Hark. F. Calif. in Grev. 1880, p. 6. — 721
Sparsa, punctiformis, subtecta, atra; sporulis cylindrico-ellipticis, utrinque rotundatis, hyalinis, 10–12 ≃ 3.

Hab. in caulibus Hosackiæ glabræ, in California, regione Americæ borealis.

343. **Phoma Galegæ** Thüm. Contr. Myc. Lus. n. 570. — Peritheciis 722
gregariis, mediis, orbiculato-hemisphæricis, semiimmersis, subtectis, fuscis, nitidis; sporulis late ellipsoideis, utrinque angustato-subacutatis, grosse binucleatis, achrois, 6–7 ≃ 3–3,5.

Hab. in caulibus emortuis Galegæ officinalis, in horto botanico Coimbra in Lusitania (Moller).

344. **Phoma Indigoferæ** Sacc. Mich. II. p. 380. — Peritheciis subcu- 723
taneis, ovato-globulosis, ⅓ mill. d., pertusis, nigris; sporulis ovato-oblongis, 8 ≃ 3–4, 2-guttulatis, hyalinis; basidiis filiformibus, 20 ≃ 1½.

Hab. in caule legum.nibusque Indigoferæ cultæ, Rouen in Gallia (Letendre). — Spermogonium *Diaporthes*.

345. **Phoma Gossypii** Sacc. Mich. II. p. 144. — Peritheciis epider- 724
mide velatis erumpentibusque, globoso-depressis, intus griseis;

sporulis breve fusoideis, 8 = 2, 2-guttulatis, hyalinis, basidiis prælongis, bacillaribus, 30 = 1½, basi crassioribus, suffultis.

Hab. in caule Gossypii, socia *Septoria arcuata*, in Carolina austr. (Ravenel). — Spermogonium *Diaporthes*.

346. **Phoma Dilleniana** Rabenh. Hedw. 66. pag. 192, *Phomæ exiguæ* Desm. proxima, differt sporulis majoribus, 6-9 = 3,5, oblongis, sæpius cylindricis, haud raro curvulis. 725

Hab. ad caules siccos Anodæ Dillenianæ, in hortis prope Dömitz in Germania (Dr. Fiedler).

347. **Phoma ochra** Cooke in Rav. Fung. Amer. n. 18. et Hedwigia 1878, p. 37. — Peritheciis gregariis tectis, parvulis, globosis, maculas effusas efformantibus; sporulis ellipsoideis, 10-12 = 3.5-4, binucleatis. 726

Hab. in caulibus Hibisci esculenti, Aicken in Carolina (Ravenel).

348. **Phoma Lavateræ** West. Not. VI. p. 22. — Peritheciis perexiguis, sparsis, nigris, immersis, ostiolo papillato, epidermidem elevantibus et perforantibus; sporulis ovoideis vel oblongis, hyalinis, 10 = 2,5. 727

Hab. in caule ramisque Lavateræ trilobæ, in hortis Tarmonde in Belgio.

349. **Phoma labilis** Sacc. Mich. II. p. 341, *Phoma Malvacearum* Sacc. Mich. I. p. 258, nec West. — Peritheciis initio epidermide velatis, dein, ea secedente, superficialibus, globulosis, tandem collabascendo umbilicatis, ⅙-⅛ mill. diam., nigris; sporulis oblongis, sæpe leniter curvis, 5-6 = 2-2½, 2-guttulatis, hyalinis. 728

Hab. in caulibus putridis Althææ roseæ, Padova.

350. **Phoma Malvacearum** West. Exs. n. 1232. — Peritheciis subcutaneis, globoso-oblongis, nigricantibus, epidermide subinde atrata tectis; nucleo fusco; sporulis fusoideis, obtusiusculis, 7-10 = 2,5-3, 2-guttulatis; basidiis bacillaribus, sesquilongioribus. 729

Hab. in caulibus Althææ roseæ et officinalis, Malvæ silvestris, Hibisci esculenti, in Gallia, Belgio, Lusitania, Italia et Sibiria.

351. **Phoma immersa** Sacc. — Peritheciis perexiguis, globoso-depressis vel conico-deplanatis, vertice tandem pertusis; sporulis fusoideis, rectiusculis, sæpe 2-guttatis, 6-7 = 2-2,5, hyalinis. 730

Hab. in caulibus Lappæ, in Germania et Italia. — Spermogonium *Diaporthes immersæ* (Fuck.) Nits.

352. **Phoma Arctii** (Lasch) Sacc. Mich. II. pag. 340. — Peritheciis 731

gregariis, subcutaneis, depressis, atro-olivaceis; sporulis oblongo-ellipsoideis, 7 ≈ 3-3½, biguttulatis, hyalinis, basidiis filiformi-arcuatis, 25 ≈ 1½, suffultis.

Hab. in caulibus putrescentibus Lappæ majoris, in Gallia. — Spermogonium prob. *Diaporthis Arctii* (Lasch) Nits. (Syll. I. pag. 653).

353. **Phoma decolorans** (Lév.) Sacc. *Sphæropsis decolorans* Lév. Ann. Sc. Nat. p. 255. — Peritheciis minutis, gregariis, seriatis, ovatis intus extusque nigris, macula albida insidentibus; ostiolis erumpentibus, papillatis, dein pertusis; sporulis ovato-elongatis, utrinque obtusis, pellucidis, 2-3-guttulatis. 732

Hab. ad caules Lappæ minoris, in Gallia merid. (Castagne).

354. **Phoma inulina** Sacc. Mich. II. p. 91. — Peritheciis sparsis, lenticularibus, tectis, 60-100 μ. diam., pertusis; sporulis oblongis, 6-7 ≈ 2½, 2-guttatis, quandoque medio subconstrictis, hyalinis, basidiis filiformibus, flexuosis, 20 ≈ 2, suffultis. 733

Hab. in caulibus Inulæ viscosæ, in Gallia merid. (Roumeguère).

355. **Phoma albicans** Rob. et Desm. 17 Not. p. 11. — Peritheciis minutis, copiosis, inordinatis, intus sordidis, epidermide tectis, humidis, globosis, prominulis, ⅙-⅓ mill. diam.; ostiolis minutis, papillatis; sporulis oblongo-cylindraceis, 10 μ. longis, hyalinis. 734

Hab. in caulibus pedunculisque, superficie dealbatis, Cichoriacearum, in Gallia, Italia et Belgio. — Spermogonium *Pleosporæ albicantis.*

356. **Phoma Artemisiæ** Kalch. et Cooke in Grev. IX. p. 18. — Sparsa, tecta, hysteriiformis, atra; peritheciis applanatis; sporulis subfusiformibus, hyalinis, binucleatis, 15-18 ≈ 4; basidiis tenuibus, elongatis, superne curvulis. 735

Hab. in caulibus Artemisiæ, in Africa australi.

357. **Phoma fuscata** (Bonord.) Sacc. *Clisosporium fuscum* Bonord. Abhandl. p. 139. — Peritheciis parvis, lentiformibus, membranaceis, fuscis, subepidermicis; mycelio ramoso, septato-articulato; sporulis albis, ovatis. 736

Hab. in caulibus Dahliæ, in Germania. — An affinis *Ph. fuscæ* Preuss?

358. **Phoma perexigua** Sacc. F. V. N. Ser. IV. 10, sub n. 23. — Peritheciis subcutaneis, atris, globoso-depressis, gregariis; sporulis fusoideis, curvulis, deorsum attenuatis, 6-8 ≈ 3, crasse 2-guttatis, hyalinis; basidiis filiformibus 25-32 ≈ 1, apice uncinatis. 737

Hab. in caule Carlinæ vulgaris, in Italia boreali, socia *Diaporthe perexigua* Sacc., cujus est status spermogonicus.

359. **Phoma Achilleæ** Sacc. Mich. II. p. 616. — Peritheciis laxe gregariis, epidermide initio velatis, globoso-oblongis, obtusis, atris; sporulis elliptico-fusoideis, 9-10 ≃ 2,5-3,5, biguttatis, hyalinis; basidiis hamatis, 26 ≃ 1. 738

Hab. in caulibus emortuis Achilleæ Millefolii, in Gallia et Italia. — Verisimiliter spermogonium *Diaporthes orthoceratis* f. *Achilleæ*.

360. **Phoma Cichoriacearum** Sacc. Mich. II. p. 616. — Peritheciis gregariis, epidermide velatis, prominulis, globoso-suboblongis, obtusis, atris; sporulis fusoideo-oblongis, 10 ≃ 3,5, 2-guttulatis, hyalinis. 739

Hab. in caulibus emortuis Crepidis, Rouen in Gallia (Malbranche). — Spermogonium *Diaporthes*.

361. **Phoma Lactucæ** Sacc. Mich. I. p. 94. — Peritheciis gregariis tectis erumpentibusque, globuloso-oblongis; sporulis 10-12 ≃ 2½-3, 2-guttulatis, basidiis curvis, 20-25 ≃ 1, fultis. 740

Hab. in caulibus emortuis Lactucæ sativæ, Rouen in Gallia (Letendre). — Spermogonium *Diaporthes*.

362. **Phoma linearis** Sacc. Mich. II. p. 340. — Peritheciis globoso-depressis, seriatis, innato-erumpentibus, nigricantibus; sporulis fusoideis, 10-12 ≃ 2, 2-guttulatis, hyalinis, basidiis bacillaribus, 20 ≃ 1½, suffultis. 741

Hab. in caulibus Solidaginis Virgaureæ, in Gallia meridionali. — Spermogonium *Diaporthes*.

363. **Phoma lusitanica** Thüm. Contr. Myc. Lus. n. 335. — Peritheciis numerosissimis, dense gregariis, punctiformibus, hemisphærico-elevatis, nitido-atris, primo cuticula tectis, postremo poro centrali apertis liberisve; sporulis ellipsoideis, numerosis, utrinque subrotundatis, uni- vel plerumque non nucleatis, achrois, 4 ≃ 2. 742

Hab. in caulibus aridis Centaureæ sempervirentis, Baleia prope Coimbra in Lusitania (Moller).

364. **Phoma endorhodia** Sacc. Mich. II. p. 275. — Peritheciis gregariis innatis, globulosis, ¼ mill. diam., intus roseo-farctis; ostiolo conoideo epidermidem perforante, obtuso; perithecii contextu distincte parenchymatico, ochraceo-fuligineo; sporulis tereti-oblongis, utrinque rotundatis, 8-9 ≃ 1½-2, 2-guttulatis, hyalinis. 743

Hab. in caulibus emortuis Centaureæ Scabiosæ, in collibus Vittorio in Italia bor.

365. **Phoma subconfluens** Mont. et Dur. Fl. Alg. I. pag. 601, Syll. 744

n. 976. — Peritheciis membranaceis, confertis confluentibusque, epidermide tandem secedente tectis, atris, opacis, poro apicali pertusis, intus corneis; sporulis oblongis.

Hab. super tuberculis Centaureæ sphærocephalæ vulnere insectorum in caule procreatis, Alger (Durieu).

366. **Phoma Anethi** (Pers.) Sacc. Mich. II. p. 336, *Sphæria Anethi* Pers. Syn. p. 30, *Dothidea Anethi* Fr. Summa Veg. Scand. p. 387. — Elongata, interrupta, rugosa, nigrescens; peritheciis cohærentibus, subnudis, papillatis, intus albofarctis; sporulis minutis, ovato-cylindraceis, 4 μ. longis (sec. Fuck.). 745

Hab. in caulibus Anethi graveolentis, in Germania, Gallia, Suecia, Lusitania et Belgio. — Jam in caulibus semivivis observatur, subcinerea, mollior, astoma, *Dothideam* referens. Perithecia polyserialia, prominula, epidermide tenui solum tecta, in strias 2–4 lin. longas, 1–2 latas inæquales aggregata. — Sec. Fuck. Symb. p. 396 cum iisdem sporulis modo descriptis adsunt sporulæ majores, oblongæ, 30 ≃ 6, oblique 1-septatæ, hyalinæ. — Var. **Apii-Petroselini** Desm. Typo paulo minor. In Gallia et Belgio.

367. **Phoma Preussii** Sacc. *Phoma myelocola* Preuss F. Hoyersw. n. 29. — Peritheciis globosis, minutissimis, confertis, papillatis, nigris, in myelostromate (?) elongato conceptis; nucleo albo, mucoso; sporulis ovatis oblongisve, continuis, albis. 746

Hab. ad caules Anethi graveolentis, Hoyerswerda.

368. **Phoma fœniculina** Sacc. Mich. II. p. 95. — Peritheciis gregariis, initio tectis, globoso-oblongis; sporulis fusoideis, 8 ≃ 3, 2-guttulatis, basidiis uncinatis, 20 ≃ 1, suffultis. 747

Hab. in caulibus Fœniculi arvensis, Saintes in Gallia (Brunaud), et Angelicæ, Malmedy (Libert). — Spermogonium *Diaporthes*.

369. **Phoma longissima** (Pers.) West. Not. III. p. 13 (1854), Berk. Outt. p. 314 (1860), *Sphæria longissima* Pers. Syn. p. 31. — Tecta, nigra; peritheciis minutis, in series longissimas parallelas confluentibus; ostiolis obsoletis; sporulis ovoideis, 4–6 ≃ 1,5–2, biguttulatis, hyalinis. 748

Hab. in caulibus Umbelliferarum, Atriplicis, Chenopodii, Bliti, in Gallia, Britannia, Suecia, Italia, Germania, Belgio, Sibiria et America. — Striæ lineares, ab uno caulis nodo ad alterum porrectæ, vix lineam latæ, passim confluentes, epidermide mox nigrescente tectæ. Perithecia stromate tenuissimo insidentia, demum subprominula.

370. **Phoma obtusa** Fuck. Symb. p. 378. — Peritheciis seminis *Papaveris* magnitudine, sparsis, primo tectis, dein liberis, compressis, vertice applanatis et subtilissime papillatis; sporulis oblongis, utrinque obtusis, 1-2-guttulatis, simplicibus, 12 ≃ 4, hyalinis. 749

Hab. in caulibus Daucí Carotæ, rarius, in Rhenogovia.

371. **Phoma Eryngii** Sacc. et Roum. Reliq. Lib. IV. n. 78. — Peritheciis epidermide immutata velatis, globosis, obtuse papillatis; ostiolo vix emergente, 1/5 mill. diam.; sporulis cylindraceis, utrinque rotundatis, medio leniter coarctatis, 12-13 ≃ 3, hyalinis. 750

Hab. in caule Eryngii, in Gallia et Germania.

372. **Phoma complanata** (Tode) Desm. Exs. Mich. II. p. 337, *Sphæria complanata* Tode Meck. II. p. 21. — Peritheciis erumpenti-superficialibus, majusculis, 1/2 mill. diam., mox compresso-umbilicatis; ostiolo papillato; contextu parenchymatico, atrofuligineo, solidiusculo; sporulis oblongis, curvulis, 5-6 ≃ 2-2 1/4, biguttulatis, hyalinis. 751

Hab. in caulibus emortuis Heraclei, Rhinanthi, Angelicæ etc., in Suecia, Gallia, Germania, Italia et in Amer. bor.

373. **Phoma caulographa** Dur. et Mont. Fl. Alg. et Mont. Syll. n. 978. — Peritheciis oblongis, lineari-confluentibus, linea atra, caulem penetrante circumscriptis; basidiis elongatis sporulas oblongas fulcientibus. 752

Hab. in caulibus exsiccatis semicorruptis Smyrnii Olusatri, ad Bouzaréah (Durieu); in Chærophyllo temulento, ad Sedanum in Gallia (Montagne).

374. **Phoma Asteriscus** Berk. Ann. N. H. n. 394. — Peritheciis convexis, brunneo-piceis, punctiformibus, margine pallidioribus; nucleis sporularum strato celluloso obscuriore tectis; sporulis oblongo-ellipsoideis vel elongatis. 753

Hab. in caulibus emortuis Heraclei, in Britannia.

375. **Phoma decipiens** Mont. Fl. Chil. VII. p. 488. — Oblonga, atra, elevata, marginata; peritheciis immersis, globosis, membranaceis, pallidis, poro perforatis; sporulis oblongis, guttulis polaribus, confluentibus, septum transversum mentientibus. 754

Hab. ad caulem Umbelliferæ, Monte la Leone in Chile. (Bertero).

376. **Phoma projecta** Cooke in Grevillea. — Peritheciis gregariis erumpentibus, globosis, nigris, ostiolis prominulis epidermidem nigrificatam perforantibus; sporulis anguste ellipsoideis, 1-3-nucleatis, 15 μ. longis. 755

Hab. in caulibus Umbelliferarum, in Britannia.

377. **Phoma eupyrena** Sacc. Mich. I. p. 526. — Peritheciis subgre- 756
gariis, depresso-conicis, 1/4 mill. diam., innato-erumpentibus, pertusis; contextu fuligineo, conspicue parenchymatico; sporulis ovoideis, 4 ≃ 1½, hyalinis (basidiis non visis).

Hab. in caulibus Solani tuberosi, in Gallia (Brunaud). — Status *Pleosporæ* cujusdam.

378. **Phoma dulcamarina** Sacc. *Phoma Dulcamaræ* Thüm. Contr. 757
Myc. Lus. n. 569, nec Nits. — Peritheciis gregariis, parvulis, interdum confluentibus, punctiformibus, fere emersis, nigris; sporulis minutis, ellipticis, utrinque subrotundatis, sæpe uni-nucleatis, achrois, 3 ≃ 2.

Hab. ad ramulos denudatos emortuosve Solani Dulcamaræ, Choupal prope Coimbra in Lusitania (Moller).

379. **Phoma pampeana** Speg. Fung. Arg. Pug. IV. n. 278. — Peri- 758
theciis lenticulari-hemisphæricis, 180-200 μ. diam., densiuscule sparsis, prominulis, primo tectis, dein erumpentibus vel cortice secedente liberis, basi ligno late nigrificato semiinfossis, atris, subcarbonaceis, ostiolo minuto non vel vix papillulato pertusis, glabris, atris; sporulis ellipticis, utrinque acutiusculis, 6-8 ≃ 2-3,5, grosse 2-guttulatis, hyalinis; sterigmatibus simplicibus, concoloribus, basi incrassatulis, 10-15 ≃ 1,5, fultis.

Hab. in ramulis dejectis putrescentibus Solani glauci in uliginosis de la Pampa de Tuyú in Argentina. — Status spermogonicus *Diaporthes* (Euporthe) *pampeanæ* Speg.

380. **Phoma Dulcamaræ** (Nits.) Sacc. Mich. II. p. 272. — Peritheciis 759
subcutaneis, gregariis, atris; sporulis fusoideis, 8-10 ≃ 2, 2-guttulatis, hyalinis, basidiis filiformi-hamatis, 25 ≃ 1½, suffultis.

Hab. in caule Solani Dulcamaræ, in Italia boreali et in Gallia. — Spermogonium *Diaporthes Dulcamaræ.*

381. **Phoma venenosa** Sacc. Mich. II. p. 94. — Peritheciis gregariis, 760
epidermide nigricante tectis, oblongis; sporulis oblongo-cylindraceis, 7 ≃ 2½, basidiis filiformibus fultis.

Hab. in caulibus Daturæ Stramonii, Toulouse in Gallia (Roumeguère). — Spermogonium *Diaporthes.*

382. **Phoma importata** (Nits.) Sacc. Mich. II. p. 380. — Peritheciis 761
laxe gregariis, subcutaneis, vix erumpentibus, depresso-globosis, 1/3 mill. diam., vix papillatis, griseo-nigris; sporulis tereti-fusoideis, utrinque obtusiusculis, 7-8 ≃ 2½-3, biguttulatis, hyalinis, basidiis fasciculatis acicularibus, 18-20 ≃ 2, fultis.

Hab. in caulibus emortuis Lycii sinensis, in horto botanico

Patavino (Bizzozero). — Certe *Diaporthes* (Tetrastaga) *importatæ* Nits. spermogonium.

383. **Phoma Tatulæ** Kalch. et Cooke Grevillea 1880, p. 18. — Sparsa, minima; perithecüs membranaceis, punctiformibus, fuscis; sporulis ellipticis, hyalinis, 6,5 ≃ 4. 762

Hab. in caulibus Daturæ Tatulæ, in Africa australi.

384. **Phoma silvatica** Sacc. Mich. II. p. 337. — Peritheciis gregariis, subcutaneis, prominulis, globulosis, 150 μ. diam., ostiolo minuto; sporulis oblongo-cylindraceis, minutis, 4 ≃ 1, utrinque rotundatis, 2-guttulatis, hyalinis. 763

Hab. in caulibus emortuis Melampyri silvatici, Rouen in Gallia (Malbranche).

385. **Phoma acanthina** Sacc. et Roum. Mich. II. p. 335. — Peritheciis dense gregariis, subcutaneis, globoso-depressis, pertusis, 150 μ. diam.; sporulis oblongis, leniter curvis, utrinque obtusiusculis, 16-18 ≃ 6-7, nubilosis, hyalinis; basidiis filiformibus, sesquilongioribus suffultis. 764

Hab. in caulibus Acanthi mollis culti, Montauban in Gallia.

386. **Phoma cordobensis** Speg. Fung. Arg. Pug. II. n. 95. — Peritheciis dense sparsis, minutis, 100-110 μ. d., lenticulari-globosis, tectis, prominulis, atris, tenui-membranaceis, contextu minutissime parenchymatico, fuligineo, ostiolo impresso pertusis; sporulis ellipticis, quandoque inæquilateralibus, utrinque obtusis ac 1-guttulatis, 5-8 ≃ 2-4, hyalinis. 765

Hab. in caulibus emortuis Privæ levis, in herbosis prope Cordoba in Argentina.

387. **Phoma nitidula** Sacc. Mich. II. p. 96. — Peritheciis gregariis, epidermide nitida velatis, globoso-depressis, $^1/_4$ mill. diam.; sporulis fusoideis, 10-11 ≃ 2-2$^1/_2$, 2-guttulatis, hyalinis, basidiis paulo longioribus, 15 ≃ 1, suffultis. 766

Hab. in caulibus Scrofulariæ nodosæ, in Gallia (Letendre). — Spermogonium *Diaporthes*.

388. **Phoma errabunda** Desm. Ann. Sc. Nat. 1849, p. 282. — Peritheciis globoso-depressis, 200 μ. diam., pertusis, nigris, nitidulis, $^1/_4$ mill. diam., contextu parenchymatico distincto, fuligineo; sporulis perexiguis, ovoideis, 3-4 ≃ 1$^1/_2$, hyalinis. 767

Hab. in caulibus Verbasci Thapsi, thapsiformis, nigri, in Gallia, Britannia, Belgio et Germania.

389. **Phoma Veronicæ** Roum. Fungi Gallici exsic. cent. XXX. Revue Mycolog. Ann. VI. p. 160. — Peritheciis innatis, numerosis, densis, 768

convexo-rotundatis, nigris, poro pertusis; nucleo albo; sporulis ovoideis, 5 ≃ 2,5, hyalinis, non guttulatis; basidiis.....

Hab. in caulibus siccis Veronicæ spicatæ, Grand Quevilly (Seine infer.) in Gallia.

390. **Phoma Phlogis** Roum. Fungi Gallici exsic. cent. XXX. Revue Mycolog. Ann. VI. p. 160. — Peritheciis aggregatis, numerosis, conicis, basi depressis, nigris, epidermide nigro-nebulosa tectis; nucleo albido; sporulis cylindricis, utrinque obtusis, 4-5 ≃ 1,5-2, hyalinis, 2-guttulatis; basidiis..... 769

Hab. in caulibus siccis Phlogis Drummondii, Grand Quevilly (Seine infer.) in Gallia (Letendre).

391. **Phoma verbascicola** (Schw.) Cooke in Rav. F. Amer. n. 141, *Sphæria verbascicola* Schw., Sacc. Syll. II. p. 428. — Peritheciis tectis, globoso-depressis, dein collapsis, centro pertusis; sporulis ellipsoideis, hyalinis, 4-4,5 μ. longis. 770

Hab. in caulibus Verbasci Thapsi et aff., in Carolina et Pensylvania.

392. **Phoma Phlomidis** Thüm. Pilzfl. Sibir. n. 788. — Peritheciis gregariis, submagnis, epidermide pertusis, conicis, nitido-atris, semi-immersis; sporulis bacillari-fusiformibus, utrinque rotundatis, subrectis vel arcuatulis, continuis, bi-quinquenucleatis, hyalinis, 10-12 ≃ 2-2.5. 771

Hab. in caulibus emortuis Phlomidis tuberosæ, prope Minussinsk in Sibiria asiatica.

393. **Phoma Sceptri** Karst. Hedw. 1884, p. 59. — Peritheciis gregariis, subcutaneis, orbicularibus aut anguloso- vel oblongato-rotundatis, applanatis, astomis vel ostiolo subpapillato, contextu celluloso, 3-5 μ. lat.; sporulis elongatis, solito rectis, utrinque obtusis, hyalinis, 5-7 ≃ 1-2. 772

Hab. ad caules emortuos Pedicularis Sceptri-Carolini, in Lapponia rossica extrema prope Subori.

394. **Phoma Marrubii** (D. et M.) Sacc. *Sphæronæma Marrubii* Dur. et Mont. Fl. Alg. p. 530. — Caulicula, innato-erumpens, gregaria; peritheciis hemisphæricis, $^1/_5$ mill. diam., tandem vertice conico, denudatis, atris, opacis, poro pertusis, intus corneis; globulo sordide albo; sporulis oblongis sub-binucleatis, 10 μ. long., hyalinis. 773

Hab. in caule Marrubii hispanici, prope Oran in Algeria (Durieu).

395. **Phoma polygramma** (Fr.) Sacc. *Sphæria polygramma* Fr. S. M. II. p. 432, *Sphæropsis polygramma* Fr. S. Veg. Sc. p. 419. — Tecta; peritheciis prominulis seriatis, subconfluentibus, in maculas late effusas dispositis, albofarctis, apice umbilicatis. 774

Hab. in caulibus Ballotæ nigræ, in Suecia et Germania. — Analoga cum *Phoma nebulosa*. Stroma nullum. Perithecia prominula, ut facile superficialia crederes, minuta, globoso-depressa, mollia, astoma, nigra, nitida, sæpe in maculas eleganter effiguratas, scripturam tenuissimam referentes, aggregata. — v. **albicans** Fr.: peritheciis gregariis epidermidem elevatam exalbicantibus. In durissimo caule. — v. **scripta** Fuck. In caulibus Galeopsidis Tetrahit. — v. **Plantaginis.** In scapis Plantaginis lanceolatæ. — Cfr. *Sphærella polygramma* Syll. I. p. 521.

396. **Phoma phyllostictea** Sacc. et Penz. Mich. II. p. 618. — Peritheciis gregariis, epidermide velatis, globoso-lenticularibus, 100-110 μ. diam., pertusis; sporulis perexiguis, oblongo-teretiusculis, utrinque rotundatis, subrectis, 3,5 ≃ 1,5, hyalinis. 775

Hab. in caule putrescente Ballotæ, Alais (bords du Gardon) in Gallia (Therry).

397. **Phoma Betonicæ** Sacc. *Rhaphidosporæ Betonicæ* spermogonium Thüm. F. Austr. n. 16. — Peritheciis atris, subrotundis; sporulis elongato-ellipticis, 4-guttulatis, hyalinis. 776

Hab. in caulibus emortuis Betonicæ hirsutæ rarissime, prope Budweis in Bohemia (Kirchner).

398. **Phoma montana** Speg. Mich. I. p. 482. — Peritheciis subepidermicis, erumpentibus, membranaceo-carbonaceis, 110-150 μ. d., sublenticularibus; sporulis fusoideis, utrinque acuminatis, nubiloso-granulosis, non vel 2-guttulatis, 6-10 ≃ $1^1/_2$-2. 777

Hab. in ramis emortuis Saturejæ montanæ, Susegana in Italia boreali.

399. **Phoma denigrata** Desm. 22 Not. pag. 6. — Peritheciis sparsis, majusculis, convexis, nigris, epidermide atrata tectis, dein erumpentibus, subinde circumscisso-deciduis; ostiolo papillato, nitido; nucleo griseo; sporulis fusoideis, 10-12 ≃ $3^1/_2$-4, 2-guttulatis; sterigmatibus hamatis, 20-24 ≃ 1, fultis. 778

Hab. in caule atrato putrido Prunellæ vulgaris, in Gallia et Italia. — Spermogonium *Diaporthes Desmazierii* Niessl.

400. **Phoma multipunctata** Sacc. Mich. II. pag. 275. — Peritheciis dense et late gregariis, epidermide velatis, atris, globoso-depressis, $^1/_4$ mill. diam.; sporulis oblongo-ellipsoideis, utrinque obtusius- 779

culis, 6–7½ ≃ 2–3, 2-guttatis, hyalinis; basidiis filiformibus, hamatis, 20–22 ≃ 1–1½, pluriguttulatis, hyalinis.

Hab. in caulibus emortuis Lamii, Padova in Italia boreali. — Spermogonium *Diaporthes*.

401. **Phoma Stigma** Cooke et Harkn. in Grevillea n. 64. — Caulicola; peritheciis minutis, sparsis vel subgregariis, punctiformibus, semiimmersis, poro pertusis; sporulis ellipticis, continuis, hyalinis, 6 ≃ 3. 780

Hab. in caulibus Portulacæ, in California.

402. **Phoma exserta** Thüm. Myc. Univ. n. 95. — Peritheciis globosis, atris, exsertis, dense gregariis; sporulis ellipsoideis, binucleatis, hyalinis, minimis. 781

Hab. in caulibus foliisque aridis Melandryii noctiflori, Bayreuth in Bavaria (Dr. Walther).

403. **Phoma collabens** Dur. et Mont. Syll. n. 984. — Peritheciis elliptico-subrotundis, primo epidermide tectis, dein erumpenti-prominulis, atris, nitidis, umbilicato-collabentibus, poro minimo pertusis; sporulis ovoideis, hyalinis. 782

Hab. in caule foliis sepalisque Minuartiæ campestris et M. montanæ, in Algeria occidentali.

404. **Phoma intermedia** Sacc. F. V. N. ser. IV. 9. sub n. 21. — Peritheciis sphæroideis, rugulosis, inter corticem lignumque nidulantibus, aterrimis, nucleo fusco fœtis; sporulis breve fusoideis, utrinque acutis, 6 ≃ 2,5, crasse 2-guttatis, hyalinis; basidiis filiformi-hamatis, 20 ≃ ½. 783

Hab. in caulibus Saponariæ, in Italia boreali, socia *Diaporthe intermedia* Sacc., cujus est status spermogonicus.

405. **Phoma Causcoræ** Rabenh. Hedw. 1878, p. 176. — Peritheciis punctiformibus, atris, gregariis, epidermide velatis; sporulis oblongo-fusiformibus, guttulatis, 5–7 ≃ 2, hyalinis. 784

Hab. in caule Causcoræ decussatæ, in India orient. (Kurz).

406. **Phoma striæformis** Dur. et Mont. Alg. p. 603. Syll. n. 977. — Peritheciis ovoideis, subaggregato-seriatis, innato-erumpentibus, atris, opacis, ostiolo conspicuo instructis seu perforatis; basidiis brevibus sporulas oblongas fulcientibus. 785

Hab. in ramis dejectis Sambuci nigræ, ad Tlemcen, nec non in caulibus Ricini etc., apud Alger (Durieu), Coimbra (Moller), in ramis demum decorticatis Sambuci nigræ, Toulouse in Gallia (Roumeguère). — Perithecia in striolas hysteriaceas hinc inde arcte digesta, globulosa, pertusa; sporulæ 6–7 ≃ 3, 2-guttulatæ, hyalinæ,

brevi stipitatæ. — v. **hysteriola** Sacc. Mich. II. pag. 93: sporulæ 7-8 ≃ 2½-3, 4-guttulatæ, longius stipitatæ; perithecia similia. In caule Dipsaci, Rumicis Acetosæ et Papaveris somniferi, Saintes, Rouen in Gallia.

407. **Phoma ebulina** Sacc. et Schulz. Micr. Slav. n. 40. Schulz. Ill. Fung. Slav. n. 703. — Ut *Phoma Ebuli*, sed sporulis ovoideo-oblongis, utrinque obtusiuscule attenuatis, biguttulatis, hyalinis, 6-12 μ. longis. 786

Hab. in caule Sambuci Ebuli, prope Vinkovce. — Probabiliter status spermogonicus *Diaporthes* cujusdam.

408. **Phoma ebulicola** Sacc. et Schulz. Micr. Slav. n. 41. Schulz. Ill. Fung. Slav. n. 702. — Peritheciis ut in *Phoma Ebuli;* sporulis 5-10 μ. longis, hyalinis, cylindraceis, curvulis. 787

Hab. in caule Sambuci Ebuli pr. Vinkovce.

409. **Phoma Ebuli** Schulz. et Sacc. Micr. Slav. n. 39. Schulz. Ill. Fung. Slav. n. 701. — Peritheciis globosis, epidermide velatis, subastomis, 0,2 mill. diam., intus albidis; sporulis ovatis v. oblongis, hyalinis, perexiguis, 1,5-2,5 μ. longis. 788

Hab. in caule Sambuci Ebuli, pr. Vinkovce.

410. **Phoma Lobeliæ** B. et Br. F. of Ceyl. n. 802. — Pustulis epidermide alba tectis, demum emersis; sporulis ellipticis, 3,5-4 μ. longis. 789

Hab. in Lobelia nicotianæfolia, Nuwara Eliya in Ceylon.

411. **Phoma Heuffelii** (B. et C.) Sacc. *Sphæropsis Heuffelii* B. et C. Exot. Fungi, pag. 280. — Peritheciis globosis, demum liberatis, basi floccis brunneis cinctis; sporulis oblongis, hyalinis, subinde curvulis, 16-17 μ. longis. 790

Hab. in caulibus vivis Lobeliarum, in India occid. (Schwein).

412. **Phoma devastatrix** B. et Br. Ann. N. H. n. 813. — Peritheciis perexiguis, punctiformibus, nigris, globosis, poro pertusis; sporulis oblongis, hyalinis, 2-3-guttulatis, 8-10 μ. longis. 791

Hab. in Lobeliis cultis in hortis, quibus damnum maximum affert, in America boreali.

413. **Phoma Spirææ** Desm. Observ. crypt. 1830, p. 13. — Peritheciis epidermidem sublevantibus, minimis, numerosis, suborbicularibus, convexis, nigris, nitidis, pertusis; sporulis ovato-oblongis, 10-12 μ. longis, utrinque 1-guttatis, hyalinis. 792

Hab. in caulibus Spirææ Arunci, in Gallia. — «Sporulæ a me visæ fusoideæ, 10 ≃ 3, 2-guttulatæ, hyalinæ, basidiis bacillaribus subæquilongis suffultæ».

414. **Phoma herbarum** West. Exs. 965, Mich. II. p. 92. — Perithe- 793
ciis gregariis, epidermide initio velatis, globoso-depressis, papillulatis, nigris; sporulis ovoideis vel ovoideo-oblongis, plerumque 2-guttulatis, hyalinis, 6-11 ≃ 3-4, basidiis brevissimis suffultis.

Hab. in caulibus herbarum fere omnium in Europa tota, Amer. bor., Sibiria asiatica. — Habentur plurimæ formæ: **Thulensis** Karst. Hedw. 1884, p. 39: perithecia 90-100 μ. diam.; sporulæ rectæ 7-10 ≃ 10, eguttulatæ. In caulibus Pedicularis, Thule. — **Dipsaci**: spor. 8-9 ≃ 3-4, 2-guttulatæ, hyalinæ. — **Mercurialis**: spor. 6-7 ≃ $2^1/_2$, lenissime curvæ, 2-guttulatæ. — **Sambuci nigræ**: spor. 6-8 ≃ 3-$3^1/_2$, curvulæ. — **Solidaginis**: spor. 7-9 ≃ 3-4, rectæ. — **Aristolochiæ Siphonis**: spor. 7 ≃ 4-$4^1/_2$. — **Valerianæ**: spor. 6 ≃ $3^1/_2$. — **Antirrhini**: spor. 8-9 ≃ $3^1/_2$. — **Galiorum**: spor. ovato-oblongæ 2-guttulatæ, hyalinæ, basidiis brevissimis suffultæ, 8 ≃ 3. — **Marrubii**: spor. 8-10 ≃ 3. — **Absinthii**: spor. 10 ≃ 3-4. — **Urticæ**: spor. 7 ≃ 4, nec non **Verbenæ, Lactucæ, Helichrysi, Brassicæ, Hyoscyami, Euphrasiæ, Humuli**: sporulæ 6-7 ≃ $2^1/_2$-3; perithecia 110-120 μ. diam. — **Rubi**: spor. 7 ≃ $3^1/_2$-4. — **medicaginea**: perith. 200 μ. diam., contextu rufo-fuligineo; spor. 5-6 ≃ 3, leniter curvæ. — **Medicaginis** Fuck. Symb. 134: sporulæ oblongæ rectæ, 10 ≃ 3, 1-2-guttatæ. — **Catalpæ capsularum**: spor. 7-8 ≃ $3^1/_2$. — **Dahliæ**: spor. 7-8 ≃ 4, 2-guttato-nubilosæ. — **Calystegiæ**: spor. 7-8 ≃ $2^1/_2$, curvulæ, 2-guttulatæ. — **Fœniculi**: spor. 6-7 ≃ $3^1/_2$-4, curvulæ. — **Phytolaccæ**: spor. 6 ≃ $3^1/_2$, rectiusculæ. — **Schoberiæ**: spor. 7-9 ≃ 3-$3^1/_2$, curvulæ, 3-guttulatæ; perithecia conoidea. — **Salicariæ**: spor. 8-9 ≃ 3-$3^1/_2$; perithecia depresso-conoidea, 150 μ. diam. — **Blattariæ**: spor. 10-12 ≃ 4, rectiusculæ 2-4-guttulatæ; perithecia globoso-depressa 90-100 μ. diam. — **Cappariidis**: spor. 7-8 ≃ 4, minute 2-guttulatæ; perithecia globoso-depressa 100 μ. diam. — **Lilacis**: spor. 7 ≃ 4, curvulæ. — **Phlæi**: spor. 10-12 ≃ $3^1/_2$-4, rectiusculæ, eguttulatæ; perithecia globoso-depressa $^1/_4$ mill. diam. — E formis modo enumeratis sequentes: *Phoma Schoberiæ*, *Blattariæ* et *Phlæi*, ut satis desciscentes distingui possent.

415. **Phoma acuta** Fuck. Symb. myc. p. 125. Mich. II. p. 93. — Pe- 794
ritheciis globosis majusculis, initio velatis, dein denudatis; ostiolo acute conoideo; sporulis oblongis, 4 ≃ $1^1/_2$, 2-guttulatis, hyalinis.

Hab. in caulibus Urticæ, Scrophulariæ, Ballotæ, in Britannia, Germania, Italia, Gallia et in Amer. bor. — *Aposphæria acuta* Berk Outl. 315 huc verisimillime spectat. — ***Ph. amplior** S. et R.; sporulis longioribus, nempe 7 ≃ 2; peritheciis quoque

paulo majoribus, nempe ½ mill. diam. In caule Fæniculi, in Gallia et Germania.

416. **Phoma bacillaris** Sacc. Mich. II. p. 273. — Peritheciis subgre- 795
gariis, globoso-conicis, subcutaneo-erumpentibus, 1/6 mill. diam., pertusis, intus pallidis; sporulis cylindraceis, leniter curvis, 15 ≃ 2, utrinque obtusis, sub-4-guttulatis, hyalinis, basidiis filiformibus simplicibus furcatisve, 15–16 ≃ 2, suffultis.

Hab. in caule Aconiti Napelli, Cichorii et Arabidis Thalianæ, in Gallia; et in caule Medicaginum, in Italia boreali. — Affinis quoque *Phomæ ancipiti* Sacc., quæ præcipue peritheciis depressis, majoribus differt.

417. **Phoma Berkeleyi** Sacc. F. V. N. ser. II. p. 306, sub n. 20, et 796
ser. V. p. 200. — Peritheciis minutis, innato-superficialibus, sphæroideis, papillulatis; sporulis cylindraceis, 8–10 ≃ 2, biguttulatis, hyalinis (sed coacervatis dilutissime luteolis).

Hab. in caulibus Lappæ, Lathyri, Galeopsidis etc., in agro Tarvisino, socia *Phomatospora Berkeleyi*, cujus status spermogonicus videtur.

418. **Phoma exigua** Desm. Exs. n. 1869. — Peritheciis copiosis, 797
sparsis v. approximatis, minutis, globosis, poro pertusis, epidermide tectis, brunneis, dein nigris; nucleo albido; sporulis ovoideis, exiguis, hyalinis, 5–7 μ. longis.

Hab. in caulibus foliisque Polygoni tatarici, Lini et Sambuci, in Gallia, Britannia et Belgio. — Var. **Ranunculorum** Desm.: peritheciis sæpe ovatis; sporulis minoribus, 3–4 μ. longis. In foliis Ranunculorum in Gallia.

419. **Phoma Epilobii** Preuss Hoyersw. n. 282. — Macula subrotun- 798
do-difformi, ambiente lævigata, uniformi; peritheciis piceis, cellulosis, albo-farctis, apice sæpe depressis; sporulis subfusiformibus, plus minus apice rotundatis, albis, guttulis oleosis repletis.

Hab. in caule Epilobii angustifolii, Hoyerswerda.

420. **Phoma œnotherella** Sacc. Mich. I. p. 524. — Peritheciis gre- 799
gariis, tectis, lenticularibus, pertusis, 110 μ. diam.; contextu circa ostiolum subfimbriato pallidiore; sporulis ovatis v. subreniformibus, 7 ≃ 4, hyalinis (basidiis non visis).

Hab. in caule Œnotheræ biennis, Rouen in Gallia (Letendre).

421. **Phoma Œnotheræ** Sacc. Mich. I. p. 524. — Peritheciis subcu- 800
taneis, globoso-lenticularibus, late pertusis, 140 μ. diam., grega-

riis; sporulis oblongis, deorsum attenuatis, 8 ≃ 2, 2-guttatis, hyalinis, basidiis filiformibus, 20 ≃ 2, sursum acutioribus suffultis.

Hab. in caule (Enotheræ biennis, Rouen in Gallia (Letendre).

422. **Phoma nebulosa** (Pers.) Mont. Berk. Outl. p. 314. *Sphæria nebulosa* Pers. Syn. p. 31, *Sphæropsis nebulosa* (Pers.) Fr. S. M. II. p. 430. — Tecta; peritheciis minimis gregariis, maculas griseas interruptas inæqualiter lineatas efformantibus; ostiolis prominulis subacutis; sporulis oblongo-ovoideis, 2-guttulatis, hyalinis. 801

Hab. in caulibus Petroselini, Solani, Phlogis, Pastinacæ, Malvæ, Urticæ, Cruciferarum etc., in Germania, Britannia, Suecia, Gallia, Italia, Belgio, America boreali, nova Zelandia. — Maculis griseis forma et magnitudine variis, e crustula subcuticulari nigra ortis, facile dignoscitur: perithecia admodum pusilla, inter se libera et irregulariter seriata. — ***Althææ** Sacc. In caulibus Althææ off. in Gallia. Perithecia punctiformia. 80 *μ.* diam.; sporulæ oblongatæ, 7–8 ≃ 1¾–2, hyalinæ.

423. **Phoma oleracea** Sacc. Mich. I. p. 91. — Peritheciis sparsis, globoso-depressis, papillulatis, ¼–½ mill. diam., initio velatis; sporulis oblongo-subcylindraceis, medio quandoque subconstrictis, utrinque obtusiusculis, 5-6 ≃ 2, 2-guttulatis, hyalinis. 802

Hab. in caulibus Brassicæ oleraceæ, in Gallia, sicut et varietates sequentes. — Affinis, sed non identica cum *Ph. herbarum* West., a qua sporulis angustioribus differt. — Var. **Antirrhini**: sporulis, 4–5 ≃ 1½–2. — v. **Urticæ**: sporulis 5–6 ≃ 2. — v. **Dipsaci**: sporulis 5 ≃ 1½. — v. **Scrophulariæ**: sporulis 5 ≃ 2. — v. **Solidaginis**: sporulis 5–6 ≃ 1¼, curvulis. — v. **Helianthi tuberosi**: sporulis 5 ≃ 2, rectis.

424. **Phoma punctata** Speg. Revue myc. II. p. 161. — Peritheciis majusculis 150–180 *μ.* diam., lenticularibus, subepidermicis, in matrice late dealbata nidulantibus, epidermidi superne adnatis atque atro maculantibus; sporulis hyalinis, ellipticis, non vel 2-guttulatis, utrinque obtusis, 8 ≃ 3–4. 803

Hab. ad caules dejectos putrescentes Cucurbitaceæ vel Borragineæ cujusdam, S. Vincent insula Africæ.

425. **Phoma melæna** (Fr.) Mont. et Dur. Alger., Kickx Fl. I. p. 437. *Sphæria melæna* Fr. S. M. II. p. 431 p. p. — Indeterminata, ambiente effusa, epidermide atrata tecta; peritheciis seriatis, albofarctis, subastomis; sporulis ellipticis, obtusiusculis, enucleatis, hyalinis (5–6 ≃ 3 in forma Silenes). 804

Hab. in caulibus exsiccatis Lathyri, Ervi, Astragali, Viciæ, Medicaginum, Silenes, in Suecia, Gallia, Germania, Sibiria, Belgio, Italia. — Nudo oculo caules modo undique atro-inquinati apparent; sed his dissectis observantur perithecia subglobosa, inter se libera, secundum fibras caulis seriata, stromate effuso atro conjuncta, leviter prominula, subglobosa, demum pertusa. — *Phoma melæna* Pr. Hoyersw. n. 280, forte eadem species est. *Sphærella melæna* (Syll. I. p. 513) est probabiliter status ejusdem ascophorus.

426. **Phoma subordinaria** Desm. 17 Not. p. 12. — Peritheciis minutis, $^1/_4$–$^1/_2$ mill. diam., numerosis, subseriatis, ovatis, convexis, intus sordidis, epidermide tectis; ostiolis minutis, nudis, dein deciduis; sporulis oblongis, 7 μ. longis, biguttulatis, hyalinis. 805

Hab. in scapis siccis Plantaginis lanceolatæ, in Gallia, Italia, Belgio, Britannia. — Spermogonium *Diaporthes aduncæ* (Desm.).

427. **Phoma Menispermi** Peck Rep. on the St. Mus. N. Y. — Peritheciis minutis, sparsis, prominulis, atro-nitidulis, subcutaneis, dein erumpentibus; sporulis minutis. 806

Hab. in caulibus emortuis Menispermi canadensis, Greenbush in America boreali. — Perithecia denique secedentia foveolasque albas linquentia. An eadem ac *Ph. sarmenticia* Sacc.?

428. **Phoma sarmenticia** Sacc. Mich. II. p. 94. — Peritheciis gregariis, tectis, oblongis; sporulis oblongis, 8–10 ≃ 2–$2^1/_4$, 2-guttatis, basidiis uncinatis, 20 ≃ 1, fultis. 807

Hab. in sarmentis Menispermi canadensis, in horto botanico Rothomagensi in Gallia (Malbranche). — Spermogonium *Diaporthes*

429. **Phoma inconspicua** Speg. Nov. Add. n. 146. Mich. II. p. 273 (nec Desm. Cfr. *Aposphæria*). — Peritheciis minutissimis 100 μ. diam., globoso-lenticularibus, subepidermicis, ostiolatis, prominulis, atris, contextu membranaceo-parenchymatico, olivaceo-fuligineo; sporulis minutis, numerosis, hyalinis, 4–6 ≃ 2–3. 808

Hab. in scapis floralibus emortuis Droseræ rotundifoliæ, in sphagnetis alpinis silvæ Cansiglio in Italia boreali.

430. **Phoma alpina** Speg. Nov. Add. n. 145. Mich. II. p. 272. — Peritheciis lenticularibus, primo epidermide tectis, dein liberis, atris, 120–150 μ. diam., ostiolo parum prominulo donatis, parenchymatico-membranaceis; sporulis ellipticis vel elliptico-ovoideis, hyalinis, 3–5 ≃ $1^1/_2$–2. 809

Hab. in scapis dejectis putrescentibus Saxifragæ Aizoon, in alpinis M. Marmolada (Cadore) in Ital. bor. — Var. **planiuscula** Karst. Hedw. 1884, pag. 38. — Peritheciis subgregariis, epidermide tectis, orbicularibus, applanatis, papilla brevissima, latiuscula erumpente, atra, 200 μ. lat.; sporulis elongato- vel oblongato-fusoideis, rectis, eguttulatis, hyalinis, 3–4 ≃ 1,5–2. Ad caules siccos Saxifragæ hieraciifoliæ, in Green Harbour Spetsberg.

431. **Phoma Dictamni** Sacc. *Rhaphidosporæ* (Ophioboli) *Dictamni* 810
Spermog. Fuck. Symb. p. 125. — Peritheciis tectis, subrotundis, atris, ostiolis cylindraceis, perithecium æquantibus, prominulis; sporulis elongato-ellipsoideis, hyalinis, 4-guttatis.

Hab. in caulibus Dictamni Fraxinellæ, rarius pr. Gaualgesheim in Rhenogovia. — Ad *Sphæronæma* vergit.

432. **Phoma leptidula** Sacc. Mich. I. p. 522 (sub *leptidea*). — Peri- 811
theciis subparallele gregariis, oblongis, subcutaneo-erumpentibus, $^1/_2 \simeq {}^1/_6$ mill. diam., subastomis; sporulis fusoideis, curvulis, 10–12 ≃ 3, 3–4-guttulatis, hyalinis, basidiis filiformibus, sesquilongioribus. fasciculatis suffultis.

Hab. in caulibus Hyperici Androsæmi, prope Rouen in Gallia (Letendre).

433. **Phoma atrificans** Sp. Pug. Fung. Arg. III. n. 97. — Peritheciis gre- 812
gariis, fere totum corticem occupantibus, atris, lenticulari-globosis, 120–140 μ. d., carbonaceo-membranaceis, ostiolo impresso perforatis; sporulis ellipticis, v. ovoideis, hyalinis, simplicibus, 6–8 ≃ 2.

Hab. in sarmentis emortuis Araujiæ albentis, ubique vulgatissima in Argentina, regione Americæ merid.

434. **Phoma Centranthi** Sacc. Mich. II. p. 92. — Peritheciis dense 813
gregariis, epidermide tectis, globoso-depressis, $^1/_6$ mill. diam.; sporulis oblongis, 9 ≃ 1½–2, eguttulatis, hyalinis.

Hab. in caulibus Centranthi rubri, Toulouse in Gallia. — Affinis *Ph. herbarum* West.

435. **Phoma Rubiæ** Sacc. Mich. I. pag. 526. — Peritheciis subgre- 814
gariis, epidermide æquali velatis, globoso-lenticularibus, $^1/_4$–$^1/_3$ mill. diam.; sporulis oblongis, quandoque curvulis, 8 ≃ 2½–3, 2-guttulatis, hyalinis, basidiis cylindro-conicis, 15 μ. long. suffultis.

Hab. in caulibus Rubiæ peregrinæ, Saintes in Gallia (Brunaud).

436. **Phoma elliptica** Peck 27 Rep. p. 101. — Peritheciis initio epi- 815
dermide tectis, dein liberatis, sparsis, ellipsoideis, nigris; sporulis oblongo-ellipsoideis, hyalinis, biguttatis, 8–9 ≃ 4.

Hab. in caule emortuo Galii borealis, West Albany in America boreali. — Perithecia subinde secedunt foveolamque albam nigro-limitatam relinquunt.

437. **Phoma Crucianellæ** (Dur. et Mont.) Sacc. *Sphæropsis Crucianellæ* D. et M., Fl. Alg. p. 463. Syll. I. p. 826. — Erumpens, mox nuda; peritheciis pro ratione magnis ovoideis, sparsis aggregatisve, confluenti-subseriatis, atris, ostiolatis; ostiolo prominulo; sporulis linearibus, rectis aut curvulis, uno latere gibbosis (ascis diffluentibus?). 816

Hab. in caulibus Crucianellæ maritimæ, La Calle in Algeria (Durieu).

438. **Phoma Cacti** Berk. in Welw. Pl. Port. p. 12. — Maculis suborbicularibus vel effusis; peritheciis majusculis, innato-prominulis; sporulis minutis, oblongo-ellipsoideis; basidiis filiformibus. 817

Hab. in caule Cacti peruviani, Lumiar et Coimbra in Lusitania. — Var. **Opuntiæ** Sacc. Mich. I. p. 524. Peritheciis sublenticularibus, 100–110 μ. diam., pertusis; sporulis ovoideis, 5–7 ≃ 4, hyalinis, basidiis brevissimis suffultis. In caule Opuntiæ, Saintes in Gallia (Brunaud).

439. **Phoma torrens** Sacc. Miscell. Mycol. p. 26. — Peritheciis dense gregariis, plagas in plantis initio vivis magis magisque diffusas, arescendo griseo-ochraceas afficientibus, punctiformibus, globoso-hemisphæricis, 100–150 μ. diam., initio epidermide velatis, dein erumpentibus, vertice obtusiusculo pertusis; contextu parenchymatico fuligineo, solidiusculo; sporulis in basi sporigera subsessilibus, obovatis, 8–10 ≃ 7, nunc minute pluriguttulatis, nunc crasse 1–2-guttatis, hyalinis. 818

Hab. in Cereis, Echinocactis, Mammillariis cultis, quibus cutem mox urit et tandem mortem affert, in horto botanico Romano, ubi cum amico prof. Pirotta legi auctumno 1883, nec non in hortis Patavinis. — Cum *Phoma Cacti* Berk. non comparanda. Sporulæ sæpe guttulis minutis farctæ ascos polysporos fere imitantur.

440. **Phoma anthracina** Speg. F. Arg. Pug. IV. n. 274. — Peritheciis minutis, 100–110 μ. diam., conoideo-lenticularibus, atris, subcarbonaceis, densissime gregariis, sæpissime confluentibus, matricem strato subcrustaceo atro hinc inde per corticem erumpente inquinantibus; sporulis ellipticis, quandoque subinæquilateralibus, utrinque obtuse rotundatis, non v. 2-guttulatis, 5–7 ≃ 2, hyalinis. 819

Hab. in ramulis languidis Rhipsalidis sarmentaceæ ad

truncos Erythrinæ Cristæ-galli in paludibus, Ensenada in Argentina.

441. **Phoma Stapeliæ** Kalch. et Cooke Grev. 1880, p. 18. — Sparsa, epidermide nigrificata tecta; peritheciis globoso-depressis: sporulis arcte ellipticis, hyalinis, binucleatis, 10–12 ≃ 3. 820

Hab. in caulibus Stapeliæ moschatæ, in Africa australi.

442. **Phoma muralis** Sacc. Mich. II. p. 91. — Peritheciis epidermide tectis, gregariis, globoso-depressis, $^1/_5$ mill. diam., papillulatis, contextu parenchymatico, fuligineo, solidiusculo; sporulis ellipsoideis, 6 ≃ 5, utrinque rotundatis, inordinate pluriguttulatis, hyalinis. 821

Hab. in caulibus emortuis Sedi albi, prope Rouen in Gallia (Malbranche).

443. **Phoma oculata** (Pr.) Sacc. *Sphærocista oculata* Preuss Hoyersw. n. 310. — Pustulis gregariis minutis, rotundatis; peritheciis globosis, corneis, ad basin hyphis ligna penetrantibus vestitis; ostiolo acuto perforante; basidiis tenuibus, abbreviatis; sporulis subfusiformibus, utrinque rotundatis, biguttatis, guttulis oleo repletis, hyalinis, albis. 822

Hab. in cortice Sedi hybridi, Hoyerswerda.

444. **Phoma Phytolaccæ** B. et C. North Am. F. n. 385. — Sub cuticula dealbata oriunda, nitens; sporulis fusiformibus binucleatis, 10 μ. longis, hyalinis. 823

Hab. in caulibus Phytolaccæ, New Jersey et New York in America boreali. — Sec. Peck. 33 Rep. pag. 23: perithecia depressa, orbicularia v. oblonga, sæpe seriata, ostiolo instructa; sporulæ, 12–13 μ longæ, 4–6-nucleatæ.

445. **Phoma lirella** Desm. Ann. Sc. nat. 1849, pag. 281. — Innata, erumpens, minuta, nigra, lineari-oblonga, 1 mill. long. $^1/_4$–$^1/_2$ mill. cr.; stromate albido; peritheciis 3–5 exiguis, seriatis, poro pertusis; sporulis stipitatis, 5–7 μ. long., 2-guttatis, hyalinis. 824

Hab. in ramis siccis denudatis Vincæ minoris, in Gallia.

446. **Phoma salsa** Sacc. Mich. I. p. 126. — Peritheciis gregariis punctiformibus, epidermide velatis erumpentibusque, globoso-depressis, 100 μ. diam., pertusis; contextu distincte celluloso, ochraceo-fuligineo; sporulis cylindraceis, lenissime curvis, 4 ≃ 1, utrinque rotundatis, 1-guttulatis, hyalinis. 825

Hab. in ramis bracteisque Salsolæ Kali, ad Nord-canal pr. Berolinum in Germania (P. Magnus).

447. **Phoma superflua** Sacc. Mich. I. p. 522. — Peritheciis gregariis, punctiformibus, 80–90 μ. diam., epidermide velatis, minute pertu- 826

sis, contextu olivaceo-fuligineo; sporulis cylindraceis, utrinque obtusis, sæpe curvis, 10-15 ≃ 3-3½, 2-guttulatis, hyalinis (basidiis non visis).

Hab. in caule Scabiosæ Columbariæ, pr. Rouen in Gallia (Letendre). — *Sphærellam superfluam* habitu æmulans.

448. **Phoma sarmentella** Sacc. Mich. II. p. 618. — Peritheciis gregariis, subcutaneis, oblongis, atris; sporulis tereti-fusoideis, hyalinis, curvulis, obtusis, 5-6 ≃ 2-3; basidiis bacillaribus sporulà subduplo longioribus. 827

Hab. in sarmentis Humuli Lupuli, prope Rouen in Gallia (Malbranche). — Spermogonium, ut videtur, *Diaporthes sarmenticiæ* Sacc.

449. **Phoma Durandiana** Sacc. et Roum. Reliq. Myc. Libert. Ser. V. n. 67. — Peritheciis gregariis, epidermide nigro-punctata tectis, globoso-depressis obtusis; sporulis oblongo-fusoideis, 2-guttatis, 7-9 ≃ 2-3, deorsum tenuatis; basidiis bacillaribus, fasciculatis, subæquilongis. 828

Hab. in caule Rumicis, in Gallia et Germania. — Verisimiliter *Diaporthes maculosæ* Sacc. spermogonium.

450. **Phoma picea** (Pers.) Sacc. *Sphæropsis picea* (Pers.) Fr. S. v. Sc. p. 419. Fuck. Symb. p. 397. *Sphæria picea* Pers. Syn. p. 31. — Elongata, inæqualis, picea; peritheciis sparsis subdepressis, latentibus, astomis, demum pertusis. 829

Hab. ad caules Atriplicis patulæ, Hyperici perforati, Artemisiæ Verbenæ officinalis, in Germania, Sibiria, Suecia. Descriptionem sporularum non vidi. — Cfr. *Diaporthe picea* Syll. I. p. 648, cujus species hæc est verisimiliter spermogonium.

451. **Phoma atriplicina** West. Exs. n. 1233. — Peritheciis ovoideis, membranaceis, nigris, epidermide atrata tectis; ostiolo papillato; sporulis ovoideis, 2-guttulatis, hyalinis, 10 ≃ 5. 830

Hab. in caulibus Atriplicis hortensis et A. Halimi, in Belgio et Gallia.

452. **Phoma Rheea** Cooke in Grevillea. — Sparsa, parvula; peritheciis globoso-compressis, tectis; sporulis ellipsoideis, utrinque nucleatis, 10 ≃ 3. 831

Hab. in caulibus Bœhmeriæ niveæ, Assam in India.

453. **Phoma Urticæ** Schulz. et Sacc. Schulz Ill. fung. Slav. n. 700. — Peritheciis globulosis depressis, gregariis, caule immersis v. subsuperficialibus, 0,14-0,4 mill. diam., intus pallidis, poro pertusis; sporulis oblongo-teretiusculis, hyalinis, 4-6 ≃ 2. 832

Hab. in caule Urticæ dioicæ, in Italia, Hungaria, Sibiria. An forma *Phomæ herbarum?* — Huc verisimiliter spectat *Clisosporium Urticæ* Bon. Abhandl. p. 140.

454. **Phoma Janiphæ** (Thüm.) Sacc. Mich. II. p. 335. *Sphæropsis Janiphæ* Thüm. in Flora 1878, p. 179. — Peritheciis subcarbonaceis, phomæformibus, dense gregariis, numerosissimis, oblongis vel elliptico-orbiculatis, subplanis, pro ratione magnis, nigris; sporulis ellipsoideis, utrinque obtuso-rotundatis, hyalinis, bi-trinucleatis, nucleis majusculis; sterigmatibus brevibus, fasciculatis, hyalinis, filiformibus, 12 ≃ 4-5. 833

Hab. ad caules emortuos Jatrophæ Janiphæ, in Carolina austr. (Ravenel). — Forma **microspora** Roum. F. G. n. 718: sporulis, 5 ≃ 3, ovoideis, 2-guttulatis. In caule Jatrophæ Janiphæ cultæ, Collioure in Gallia (Roumeguère).

455. **Phoma Ricini** (Cooke) Sacc. *Sphæropsis Ricini* Cooke Grev. XII. p. 23. — Caulicola, sparsa; peritheciis atris, subglobosis, demum depressis, poro pertusis; sporulis elongato-ellipticis, hyalinis, 20 ≃ 5. 834

Hab. in caule Ricini communis, in Carolina austr. Americæ borealis (Ravenel).

456. **Phoma macropyrena** Thüm. Contr. Myc. Lusit. n. 336. — Peritheciis submembranaceis, numerosis, subgregariis, irregulariter orbiculatis et sæpe confluentibus, fere applanatis, cito liberis et epidermide disrumpenti cinctis, opaco-nigris; sporulis numerosis, typicis, cylindrico-ellipsoideis, utrinque rotundatis, simplicibus, cum nucleis maximis, duobus, achrois vel subnebulosis, 8 ≃ 3,5-4. 835

Hab. ad caules emortuos Ricini communis, in horto botanico, Coimbra in Lusitania (Moller).

457. **Phoma Euphorbiæ** Sacc. Mich. II. p. 339. — Peritheciis gregariis subcutaneis, oblongis, griseo-nigris; sporulis ovato-oblongis, obtusiusculis, 7 ≃ 3-3½, 2-guttulatis, basidiis fasciculatis, acicularibus, paulo longioribus suffultis. 836

Hab. in caulibus Euphorbiæ Characiæ, in Gallia australi. — Spermogonium *Diaporthes Euphorbiæ* Cooke.

458. **Phoma cyclospora** Sacc. Mich. I. p. 370. — Peritheciis lenticularibus, subcutaneis distincte et firme parenchymaticis, pertusis; sporulis globulosis, v. quandoque obtuse angulosis, 1-3-pluriguttulatis, 5,5-6,5 μ. diam., hyalinis, basidiis cylindraceis, 5 ≃ 1,5, facillime deciduis fultis. 837

Hab. in caulibus emortuis Euphorbiæ Cyparissiæ, Co-

negliano in Italia bor., socia *Physalospora minutula* S. et S., cujus forte spermogonium.

459. **Phoma microsperma** Preuss F. Hoyersw. n. 278. — Peritheciis tenuibus lentiformibus, pertusis, epidermidi insertis; nucleo pulposo; sporulis minutissimis, rotundatis, albis. 838

Hab. ad caules herbarum, Hoyerswerda.

460. **Phoma fusca** Preuss F. Hoyersw. n. 283. — Peritheciis tenuibus lentiformibus, pertusis subsuperficialibus, luteo-fuscis; nucleo pulposo, albo; sporulis oblongis; medio unistriatis, albis. 839

Hab. ad caules dejectos herbarum, Hoyerswerda.

461. **Phoma Hysteropsis** Peck. et C. 33 Rep. St. Mus. New York p. 23 sub nom. *Ph. hysterellæ*). — Peritheciis immersis, prominulis, subhysterioideis, epidermide tectis, atris, ostiolo papillulato; sporulis ellipsoideis v. subfusoideis, hyalinis, bi-guttulatis, 7–8 μ. longis. 840

Hab. in caulibus emortuis herbarum, Buffalo in America boreali (G. W. Clinton).

462. **Phoma irregularis** (B. et C.) Sacc. *Sphæropsis irregularis*, B. et C. Cub. Fungi n. 563. — Peritheciis epidermide tectis, convexis; sporulis irregularibus, subglobosis vel subclavatis, hyalinis, 7–8 ≃ 5. 841

Hab. in caulibus herbarum minorum, in Cuba.

463. **Phoma hysteriiformis** Cooke F. of Texas p. 141. — Peritheciis gregariis, atris, elongato-hysteriiformibus, basi applanatis; sporulis ellipsoideis, hyalinis, binucleatis, 10–12 μ. longis. 842

Hab. in caule herbarum, Galveston, Texas (Ravenel).

464. **Phoma catenulata** Preuss Hoyersw. n. 28. — Peritheciis gregariis, semiinnatis, nigris, magni-papillatis, atris, tenuibus, longe seriato-cellulatis, compositis; sporulis continuis, in series subcatenatis, muco involutis, oblongis, nucleum includentibus, albis. 843

Hab. in stipitibus herbarum majorum, Hoyerswerda. — «Species dubia, ad *Phomam* vix pertinens».

465. **Phoma Preussii** Sacc. *Phoma cylindrispora* Preuss Hoyersw. n. 26. — Peritheciis sphæricis, gregariis, immersis, tenuibus cellulatis, atris; sporulis continuis, cylindricis, utrinque rotundatis, albis. 844

Hab. in stipitibus majoribus herbarum, Hoyerswerda.

466. **Phoma rhodosperma** Preuss F. Hoyersw. n. 277. — Peritheciis tenuibus lentiformibus, papillatis, epidermidi insertis; nucleo pulposo, roseo; sporulis oblongo-cylindricis, utrinque rotundatis albis. 845

Hab. ad caules herbarum, Hoyerswerda.

467. **Phoma caulincola** (Schw.) Sacc. *Sphæronæma caulincola* Schw. 846
Syn. Am. bor. n. 2143. — Peritheciis aggregatis, subdifformibus aut sphæriæmorphis, nigris, rugosis, subcompressis, coronatis globulo nigro, intus albofarctis.

Hab. in caulibus vetustis ignotis, Bethlehem in Amer. bor.

B) Foliicolæ.

468. **Phoma tagana** Thüm. Contr. Myc. Lusit. n. 333. — Perithe- 847
ciis minutissimis, epiphyllis, dense gregariis, conico-emersis, atris in macula orbiculari, arescendo-albicante, anguste violaceo-purpureo-cincta; sporulis ellipsoideis vel ovato-ellipticis, utrinque rotundatis, simplicibus, enucleatis, achrois, 5 ≃ 2–2,5.

Hab. in foliis vivis Centaureæ taganæ, Pinhal de Marrocos pr. Coimbra in Lusitania (Moller). — Habitus fere *Phyllostictæ*, sed perithecia *Phomæ*.

469. **Phoma Jowana** Sacc. Mich. II. p. 574. — Peritheciis in macu- 848
lis adustis, subphyllachoroideis, gregariis, innato-prominulis, globoso-depressis, ostiolo obsoleto, solidiusculis, nigris; sporulis ovoideis, 10–12 ≃ 8, crasse, 1–3-guttatis, hyalinis; basidiis fasciculatis, acicularibus, 6–7 ≃ 2, hyalinis.

Hab. in foliis subvivis Asteris ptarmicoidis, Jowa in America boreali ubi legit J. C. Arthur, et Asteris punicei, White Mout. (Farlow).

470. **Phoma Raui** (Peck) Sacc. *Sphæropsis Raui* Peck Bot. Gaz. 1878, 849
p. 34. — Maculis indefinitis, brunneis; peritheciis copiosis, gregariis, minutis, submembranaceis, nigris, 150–170 μ. diam.; sporulis obovato-oblongis, hyalinis, 16–20 μ. longis.

Hab. in foliis vivis Artemisiæ scopulorum, in America boreali.

471. **Phoma ferruginea** Sacc. Cfr. Fuck. Symb. App. II. p. 20 et Sacc. 850
Syll. I. p. 537. — Peritheciis sparsis, subsuperficialibus, ovato-globosis, submajusculis, atris, apice pilis paucis concoloribus, perithecii longitudine in acumen connatis instructis; sporulis cylindraceis, subrectis, continuis, 6 ≃ 2.

Hab. in foliis marcescentibus Artemisiæ vulgaris, socia *Sphærella ferruginea*, cujus spermogonium est, in Rhenogovia. — «An potius *Pyrenochæta?*».

472. **Phoma Filaginis** West., Kickx Fl. Fl. I. p. 442. — Peritheciis 851

sparsis, minutis, copiosis, tectis, dein erumpenti-prominulis, matricis superficiem denigrantibus, globosis, atronitidis; ostiolo papillato; sporulis cylindraceis, rectis, hyalinis, 5 ≃ 1,3.

Hab. in foliis Filaginis arvensis, in Belgio.

473. **Phoma sordida** Dur. et Mont. Alg. p. 607. Syll. n. 983. — Amphigena; peritheciis punctiformibus, maculari-confertis, prominulis, fusco-atris opacis, apice poro perforatis; sporulis minutissimis, ovato-oblongis, hyalinis. 852

Hab. in foliis Othonnæ cheirifoliæ, Constantine in Algeria (Durieu).

474. **Phoma minutissima** Cooke in Grevill. — Maculis irregularibus, nigricantibus; peritheciis semiimmersis, atris, punctiformibus, congestis; sporulis minimis, 4 ≃ 2. 853

Hab. in foliis Liatris odoratissimæ, Aiken in Carolina Americæ borealis.

475. **Phoma Hedysari** DR. et M. F. Alg. p. 608. Syll. n. 985. — Epi-raro hypophylla; peritheciis hemisphæricis, atris, siccis, collapso-corrugatis, in maculam atram, fusco-marginatam congregatis; sporulis ovoideis, minutis, hyalinis. 854

Hab. in foliis Hedysari coronarii, Constantine in Algeria (Durieu).

476. **Phoma leptothyrioides** Karst. Hedw. 1884, p. 58. — Peritheciis gregariis, subcutaneis, mox nudis, sphæroideo-cupulatis, nitidis, astomis, 2 μ. lat.; sporulis elongatis, utrinque acutatis, curvatis, 7-8 ≃ 1,5. 855

Hab. in pagina superiore foliorum emortuorum Fragariæ, in Mustiala.

477. **Phoma tricolor** (Dur. et Mont.) Sacc. *Sphæronæma tricolor* Dur. et Mont. Fl. Alg. p. 579. — Foliicola, amphigena, sparsa; peritheciis innato-erumpentibus, globoso-ovoideis, atris, opacis, albo-farctis, poro pertusis; globulo fugaci pallide rubro; sporulis cylindricis obtusis, 5 ≃ 2. 856

Hab. in foliis emortuis Diplotaxis vimineæ, in deserto Tilleri nuncupato in Algeria (Guyon).

478. **Phoma effusa** Rob. Des. 22 Not. p. 8. — Epi-raro hypophylla, subgregaria, dein effusa; peritheciis punctiformibus, intus albis, epidermide tectis, $\frac{1}{3}$ mill. diam.; ostiolis erumpentibus papillatis, quandoque halone alba cinctis; sporulis oblongis, obtusiusculis, circiter 7-5 ≃ 2,5. 857

Hab. in foliis siccis Hellebori, in Gallia.

479. **Phoma punctiformis** Desm. XVII. Not. p. 11. — Peritheciis amphigenis, sæpius epiphyllis, numerosis, sparsis, rotundatis, convexis, nigro-fuscis, epidermide tectis, papillatis, dein poro pertusis, $^1/_5$ mill. diam.; cirris pallide griseis; sporulis oblongis, inæqualibus, 5–7 μ. longis, hyalinis. 853

Hab. in foliis emortuis Lychnidis chalcedonicæ, in Gallia.

480. **Phoma radiata** (Pr.) Sacc. *Gemtajacta radiata* Preuss Hoyersw. n. 313. — Peritheciis hemisphæricis, socialibus, atris, membranaceis; nucleo albo, mucoso; basidiis concentricis, longis, filiformibus, albis; sporulis ovatis, minutis, albis. 859

Hab. in foliis Saponariæ, Hoyerswerda.

481. **Phoma Massalongi** Speg. Rev. myc. IV. p. 79. — Peritheciis sparsis, minutis, 100–120 μ. diam, punctiformibus, atris, ostiolo impresso pertusis, subcarbonaceo-membranaceis; sporulis elliptico-cylindraceis, sæpius curvulis, 4–5 $\simeq$ 1, 2–3-guttulatis, hyalinis. 860

Hab. in foliis languidis Cherleriæ sedoidis, Lac d'Oncet Hautes-Pyrenées et in Alpibus italicis (C. Massalongo).

482. **Phoma Violæ** West. Exs. n. 525, Kickx Fl. Fl. I. p. 442. — Peritheciis globulosis, levibus, in pustulas subrotundas minutas aggregatis, epidermide laciniata et circumcirca flavicante cinctis; ostiolo papillato, nitidulo, caduco; sporulis ovoideis perexiguis, biguttulatis, hyalinis. 861

Hab. in foliis Violæ caninæ, in Belgio. — «Sec. Kickx perithecia in soris Pucciniæ enascuntur: an ergo *Darluca?*»

483. **Phoma Vincæ** (Curr.) Sacc. *Sphæropsis Vincæ* Curr. Simpl. Sphær. p. 333, Kickx Fl. Fl. I. p. 402. — Peritheciis globulosis, erumpentibus, prominulis, nigris, levibus, sparsis, copiosis, poro pertusis; nucleo albido; sporulis oblongo-ellipsoideis, hyalinis, 15–18 μ. longis. 862

Hab. in foliis emortuis Vincæ majoris, in Britannia et Belgio.

484. **Phoma Westendorpii** Tosq. et West. Not. V. p. 21. — Peritheciis copiosis, sparsis, innato-erumpentibus, sphæroideis, tandem collabascentibus, brunneo-rufis, dein nigricantibus; ostiolo papillato; sporulis ovoideo-oblongis, 10 $\simeq$ 3; basidiis tenellis, subramosis. 863

Hab. in foliis putrescentibus Nupharis lutei, pr. Ypres in Belgio. — Cum *Phoma Crepinii* (Mont.) comparanda species.

485. **Phoma Saxifragarum** West. Not. VI. p. 23. Mich. II. p. 617. 864

— Peritheciis gregariis, innato-erumpentibus, punctiformibus, globulosis, pertusis; sporulis oblongis, utrinque obtusiusculis, 6–7 ≃ $2^1/_2$, interdum medio subconstrictis, biguttulatis, hyalinis.

Hab. in foliis languidis præcipue ad nervos Saxifragæ crassifoliæ cultæ in Belgio, Gallia et Germania.

486. **Phoma Debeauxii** Roum. Rev. Myc. IV. p. 216, t. XXXII f. G. 865
— Peritheciis punctiformibus, $^1/_6$ mill. diam., copiosis, aggregatis, nigris, in macula subcirculari; sporulis hyalinis, exiguis, ovoideo-oblongis.

Hab. in pag. superiore foliorum languidorum Statices oxylepidis, Oran in Algeria (Debeaux).

487. **Phoma Letendrei** Sacc. Mich. I. p. 526. — Peritheciis epiphyllis, sparsis, erumpenti-superficialibus, lenticularibus, majusculis, $^1/_2$–$^2/_3$ mill. diam., atro-nitentibus, subastomis; contextu parenchymatico, atro-fuligineo; sporulis fusoideo-falcatis, utrinque acutis, 7–9 ≃ $1^1/_2$, hyalinis, basidiis filiformibus, furcatis, 18–22 ≃ 1, suffultis. 866

Hab. in pag. superiore foliorum Lysimachiæ Nummulariæ, pr. Rouen in Gallia (Letendre).

488. **Phoma Jasiones** Thüm. Contr. Myc. Lus. n. 153. — Peritheciis gregariis, minutis, globosis, atris, in caulium partibus aridis vel in pagina inferiore foliorum flavescenti-arida; sporulis fere globosis vel globoso-ovoideis, achrois, enucleatis, 3–4 μ. longis. 867

Hab. in foliis caulibusque subvivis et languidis Jasiones montanæ, pr. Coimbra Lusitaniæ (Mesnier).

489. **Phoma Atomus** (Lév.) Auersw. Hedw. 1866, p. 192. *Sphæropsis Atomus* Lév. Ann. Sc. nat. — Peritheciis hypophyllis v. caulogenis, gregariis puncto minoribus, tectis, globosis, nigris; ostiolis erumpentibus, prominulis; sporulis minutissimis cylindraceis, utrinque obtusis (Sec. Auersw.: sporulis cylindraceis, 12 ≃ 8, utrinque rotundatis, curvulis, biguttatis). 868

Hab. in foliis caulibusque Rubiæ tinctoriæ et peregrinæ, in Germania et Gallia.

490. **Phoma fragilis** (Mont.) Sacc. *Sphæropsis fragilis* Mont. Cent. VI. n. 41, p. 52, et Syll. n. 964. — Epiphylla; peritheciis sparsis, innato-erumpentibus, solitariis aut raro 2–3 aggregatis, globoso-ovatis, atris opacis, cuticulâ lacerata tectis, tandem basi circumscissa cupulam in foliis nigram linquentibus, albo-nucleatis; sporulis oblongis hyalinis, episporio vitreo fragili, endosporium granulosum dimittente. 869

Hab. in folio cujusdam Rubiaceæ(?) exoticæ (non in ramis Hederæ ut in Mont. Syll. n. 964).

III. *In fructibus et floribus Dicotyledonearum.*

491. **Phoma leguminum** West. Exs. n. 1135. — Peritheciis punctiformibus sparsis, copiosis, globulosis, nigris, innato-erumpentibus, poro pertusis; nucleo albido, dein sordido; sporulis ovoideis v. oblongo-ovoideis, 5 ≃ 2,5, obtusiusculis, hyalinis; basidiis brevissimis. 870

Hab. in leguminibus Cercidis Siliquastri, Robiniæ, Coluteæ, Gleditschiæ, Laburni, in Belgio, Italia, Gallia et Austria.

492. **Phoma lathyrina** Sacc. Mich. II. p. 274, M. V. Cent. XV. — Peritheciis gregariis, velatis, globoso-depressis, atronitidis, $^1/_4$ mill. diam.; sporulis oblongis, inæquilateralibus, 9-10 ≃ $2^1/_2$, 2-guttulatis, hyalinis; basidiis 871

Hab. in leguminibus emortuis Lathyri latifolii, Padova in Ital. bor. — Spermogonium *Diaporthes*. A *Ph. leguminum* West. diversa.

493. **Phoma Triacanthi** Sacc. *Sphæropsis Gleditschiæ* Cooke in Rav. Fung. Amer. n. 145, nec Thüm. — Subgregaria, erumpens; peritheciis atris, sæpe 2-4 congestis, supra obtusis vel depressis; sporulis arcte ellipticis, hyalinis, 15 ≃ 3. 872

Hab. in leguminibus Gleditschiæ, Aiken in Carolina (Ravenel).

494. **Phoma phyllostictoides** Desm. Crypt. de France, Ser. III. n. 694. 873

Hab. in leguminibus aridis sed adhuc pendulis Coluteæ arborescentis, in Gallia, et Gorizia in Italia boreali (Diagnosim comparare non potui).

495. **Phoma capsularum** Cooke et Harkn. in Grevillea 1881, p. 82. — Erumpens; peritheciis atris, nitidis, in maculas orbiculare congestis; sporulis ellipticis, hyalinis, continuis, 6,5 ≃ 2,5-2,8. 874

Hab. in leguminibus Robiniæ, in California.

496. **Phoma clitoricarpa** (Cooke) Sacc. *Sphæropsis Clitoreæcarpa* Cooke in Grevillea. — Sparsa, punctiformis; peritheciis atris, subglobosis, primo tectis, demum erumpentibus; sporulis late ellipticis, hyalinis, 20-25 ≃ 12-14. 875

Hab. in leguminibus Clitoreæ, Madras (Doct. Bidie).

497. **Phoma cassiocarpa** (Cooke) Sacc. *Sphæropsis cassiæcarpa* Cooke in Grevillea. — Punctiformis, sparsa; peritheciis depressis, atris, 876

poro pertusis; sporulis cylindricis, utrinque rotundatis, hyalinis, 25–30 ≃ 6.

Hab. in leguminibus Cassiæ Absus et Citoreæ, Madras. 877

498. **Phoma Acaciæ** Penz. et Sacc. F. Mortol. n. 23, tab. IV. fig. 10. — Peritheciis sparsis vel laxe gregariis, majusculis, subsuperficialibus, 200–240 μ. diam.; contextu parenchymatico, atrobrunneo; ostiolo haud prominente; sporulis oblongo-ellipticis, utrinque acutiusculis, biguttulatis, hyalinis, 7–8 ≃ 2–3; basidiis obsoletis.

Hab. in leguminibus dejectis Acaciæ cyanophyllæ, Mortola in Italia bor.

499. **Phoma Cucurbitacearum** (Fr.) Sacc. *Sphæria Cucurbitacearum* 878
Fr. Syst. Myc. II. p. 502. — Gregaria; peritheciis emerso-innatis, hemisphæricis, levibus, nitidis, astomis, gelatina molli; sporulis oblongis 7,5 μ. longis.

Hab. in fructibus vivis et semivivis Cucurbitæ, Momordicæ, Luffæ, in Europa et America. — Nulli maculæ insidet, ceterum *Sphæriæ? epymici* non absimilis, si a statura minore discesseris.

500. **Phoma subvelata** Sacc. Mich. I. p. 524. — Peritheciis gregariis, 879
globoso-lenticularibus, epidermide velatis, $^1/_4$ mill. diam., late pertusis; contextu minute parenchymatico circa ostiolum densiore, fuligineo; sporulis cylindraceo-oblongis, 8–9 ≃ 2–$2^1/_2$, medio leniter constrictis sed continuis, 2-guttatis, hyalinis, basidiis filiformibus, curvulis, 30 ≃ 1, fultis.

Hab. in epicarpio Cucurbitæ Peponis vel aurantiiformis, Saintes in Gallia (Brunaud).

501. **Phoma decorticans** De Not. Micr. it. Dec. II. fig. 7. — Peri- 880
theciis gregariis, epidermide dein frustulatim secedente initio velatis, globoso-depressis, papillulatis, atris; sporulis oblongo-fusoideis, 10 ≃ 2–$2^1/_2$, 2-guttulatis, hyalinis.

Hab. in cortice fructus Cucumis sativi, in Italia, Germania et Gallia.

502. **Phoma mucosa** Speg. Mich. II. p. 273. — Peritheciis lenticula- 881
ribus, subcutaneis, 100–120 μ. diam., membranaceis, olivaceis; sporulis cylindraceo-ellipticis, granuloso-farctis, hyalinis, 10 ≃ 2.

Hab. in cortice putri fructus Cucurbitæ Melopeponis, in hortis et arvis, Belluno in Italia bor.

503. **Phoma Lagenariæ** (Thüm.) Sacc. *Sphæropsis Lagenariæ* Thüm. 882
Contr. Myc. Lusit. n. 553. — Peritheciis gregariis, lentiformibus, applanatis, primo tectis, demum liberatis, fusco-atris, submagnis;

sporulis cylindraceis, utrinque rotundato-subacutatis, continuis, achrois, endoplasmate grumuloso, 16-18 ≃ 4, basidiis brevibus, fasciculatis, flexuosis, hyalinis fultis.

Hab. in epicarpio putrido Lagenariæ vulgaris, in horto botanico Coimbra Lusitaniæ (Moller).

504. **Phoma lagenicola** Sacc. *Phoma Lagenariæ* Thüm. Contr. Myc. Lus. n. 567. — Peritheciis numerosis, minutis, punctiformibus, immersis, nigris in macula magna, irregulari, ochraceo-ferruginea; sporulis ellipticis, utrinque rotundato-acutatis, continuis, enucleatis, 4-5,5 ≃ 2,5, hyalinis. 883

Hab. in epicarpio arido Lagenariæ vulgaris, in horto botanico, Coimbra in Lusitania (Moller).

505. **Phoma cucurbitalis** B. et C. North Amer. Fungi n. 379. — Sparsa, deplanata, nitida; sporulis breviter oblongis, binucleatis, minutis, 5-7 μ. long. 884

Hab. in seminibus Cucurbitæ Citrulli *(Water Melon)* in Amer. bor.

506. **Phoma Citrulli** B. et C. North Amer. Fungi n. 378. — Deplanata superficialis; sporulis fusiformibus, bi-trinucleatis, 20 μ. longis; basidiis sporulâ brevioribus. 885

Hab. in seminibus Cucurbitæ Citrulli, in Carolina infer. Americæ bor.

507. **Phoma seminalis** (B. et C.) Sacc. *Sphæropsis seminalis* B. et C. North Amer. Fungi n. 415. — Peritheciis sparsis, brunneis, applanatis; sporulis oblongis, inæquilateralibus, 15 ≃ 5-7, granulosis. 886

Hab. in seminibus Citrulli, in Carolina infer.

508. **Phoma uvicola** B. et C. North Amer. Fungi n. 382. — Irregularis subcutaneo-erumpens et tunc cuticulâ anguste cincta; sporulis oblongis, 7-8 μ. longis. 887

Hab. in baccis Vitis, in Carolina infer. Americæ bor.

509. **Phoma uvarum** (B. et C.) Sacc. *Sphærospis Uvarum* B. et C. North Amer. Fungi n. 417. — Peritheciis innumeris, collabascentibus, cuticulâ membranacea tectis, hyalinis, centro nigris; sporulis breviter cymbæformibus leniterve curvis, 7-10 ≃ 5. 888

Hab. in baccis Vitis (Scuppernong), in Carolina infer.

510. **Phoma baccæ** Catt. in Pir. F. Vitigni p. 56. — Peritheciis globosis, atris, maculis brunneis circumdatis, ostiolo minuto pertusis, subcutaneo-erumpentibus nucleo-albido; sporulis ovoideis, utrinque rotundatis, 1-3-nucleatis, hyalinis, 12 μ. longis; basidiis clavatis, radiantibus, apice 2-3, sterigmata sporophora gerentibus. 889

Hab. in baccis submaturis, in Etruria (Targioni-Tozzeti). — «An *Dendrophoma?*».

511. **Phoma strobilaria** (Preuss) Sacc. *Gerulajacta strobilina* Pr. Hoyersw. n. 314. — Peritheciis membranaceis, erumpentibus, globosis, atris, dein pertusis; nucleo albo; basidiis clavæformibus; sporulis ovatis albis. 890

Hab. ad conos dejectos Pini, Hoyerswerda.

512. **Phoma strobiligena** Desm. 17 Not. p. 8. — Peritheciis minutis, subsuperficialibus, $^1/_5$-$^1/_4$ mill. diam., sæpe gregariis, globosis, nigris, astomis, subrugulosis, collabascendo concavis, intus albis; sporulis minutissimis ovoideis vel ovoideo-oblongis, 6-8 ≃ 3, hyalinis, 2-guttulatis. 891

Hab. in squamis strobilorum Cedri Libani, Thujæ, Pinorum, in Gallia, Italia et Belgio. — F. **microspora** Sacc. Reliq. Lib. V. n. 69: sporulis minutis, 4 ≃ 2, biguttulatis. In strobilis Pini silvestris, in Italia, Gallia et Germania.

513. **Phoma Pinastri** (Oud.) Sacc. *Coniothyrium Pinastri* Oud. Aanv. 1876-77, p. 8. — Peritheciis membranaceis, subtilissimis, atris, contextu (sub microscopio) atroviolaceo, minuto, celluloso, irregulariter dehiscentibus, sparsis cæspitosisve, subcompressis; sporulis achromis, mucilagine conjunctis, minimis, 3 ≃ 1,5. 892

Hab. ad squamas strobilorum maturorum Pini Pinastri, in Neerlandia.

514. **Phoma occulta** Sacc. Cfr. Fuck. Symb. App. III. p. 23. — Peritheciis sub epidermide in stromate tenuissimo nigro limitato nidulantibus, pustulatis, demum subrimose dehiscentibus; nucleo griseo; sporulis oblongo-ovatis, biguttatis, 7 ≃ 3. 893

Hab. in squamis conorum Abietis, in Rhenogovia. — Spermogonium *Diaporthes occultæ.*

515. **Phoma conorum** Sacc. Mich. II. p. 615. — Peritheciis gregariis innato-erumpentibus, globoso-depressis, subastomis; nucleo griseo; sporulis fusoideis, rectis 10-14 ≃ 2-2$^3/_4$, 1-guttulatis, hyalinis; basidiis uncinatis, 24 ≃ 1, suffultis. 894

Hab. in squamis conorum Abietis, in Gallia et Germania. — Spermogonium *Diaporthes conorum.*

516. **Phoma arctica** (B. et C.) Sacc. *Sphæropsis arctica* B. et C. F. N. Pac. n. 124. — Peritheciis erumpentibus, elongato-prominulis, patellæformibus vel subcompressis, hyalinis, fusiformibus. 895

Hab. in conis Pini Ajanensis, Kamtschatka.

517. **Phoma lineolata** Desm. Exs. Ser. II. n. 58 et 19 Not. p. 3. — 896

Peritheciis innato-erumpentibus, nigris, exiguis, in series breves connato-digestis, poro pertusis, epidermide demum fissa tectis; nucleo albo; sporulis ovoideis vel oblongis, denique cirrose expulsis, 5–7 μ. longis; basidiis brevibus.

Hab. in squamis conorum Laricis europææ, in Gallia et Belgio.

518. **Phoma galbulorum** Sacc. et Therry Mich. II. p. 617. — Peri- 897
theciis sparsis, innato-erumpentibus, globuloso-depressis, minutis; ostiolo obtuso; sporulis oblongo-subfusoideis, 7–7,5 ≃ 2,5–3, hyalinis; basidiis sporulà subduplo longioribus, bacillaribus, fasciculatis.

Hab. in fructibus (galbulis) Juniperi Oxycedri, Ruoms (Ardèche) in Gallia (Therry).

519. **Phoma entomogenea** Sacc. et Penz. Mich. II. p. 615. — Peri- 898
theciis sparsis, erumpentibus, globulosis, nigris, obtusis, 1/4 mill. diam.; sporulis ellipsoideo-oblongis, rectiusculis, 7–8 ≃ 3, 2-guttatis, hyalinis; basidiis subnullis.

Hab. in amentis Abietis ab insectis monstrose transformatis, Le Sapey (Isère) in Gallia (Therry).

520. **Phoma nitens** Sacc., Rouss. et Bomm. Miscell. mycol. n. 8 (sub 899
nomine *nitidulæ).* — Peritheciis gregariis, globoso-hemisphæricis, atris, nitidissimis, subsuperficialibus, 1/6 mill. diam., vix papillatis; sporulis bacillaribus, rectis, utrinque obtusiusculis, 16–20 ≃ 1,8–2, hyalinis; basidiis perexiguis.

Hab. in glandibus quercinis prope Bruxelles in Belgio. — Affinis *Phomæ cylindrosporæ,* sed perithecia diversa.

521. **Phoma glandicola** (Desm.) Lév. Ann. Sc. Nat. 1846, p. 281, *Spo-* 900
ronema glandicola Desm. — Peritheciis gregariis, erumpentibus, subglobosis, levibus, nigris, epidermide lacerata cinctis; ostiolo obsoleto; sporulis oblongis, 6–7 ≃ 1 3/4–2, hyalinis, basidiis simplicibus obclavatis, 20 ≃ 2, e strato proligero fuligineo oriundis, suffultis.

Hab. in glandibus quercinis, in Gallia, Germania, Italia, Britannia et Lusitania. — ***cupulæ** Sacc. Mich. II. p. 272: peritheciis globoso-papillatis emergentibus; sporulis oblongis, 6–8 ≃ 2 1/2–3, 2-guttulatis, hyalinis, basidiis filiformibus quandoque furcatis triplo longioribus suffultis. In cupulis Quercus Ilicis, Padova. — ***Coryli-putaminis** Sacc. Mich. II. p. 272: sporulis 6 ≃ 2 1/2, basidiis 20 ≃ 1 suffultis. In putamine Coryli, Conegliano in Italia bor.

522. **Phoma cœnanthicola** Thüm. Pom. p. 106. — Peritheciis pro ra- 901
tione magnis, numerosissimis, densissime gregariis, hemisphæricis, induratis, fructum fere totum ambientibus et obtegentibus, opaco-

nigris; sporulis numerosis, cylindrico-fusiformibus, subarcuatis v. fere rectis, utrinque leniter acutatis, binucleatis, hyalinis, 7 ≃ 3.

Hab. in cœnanthio submaturo exsiccato, sed non putrido Ficus caricæ, Parenzo in Istria (Bolle).

523. **Phoma endogena** Speg. Mich. I. p. 482. — Peritheciis in membrana cotyledones obvolvente nidulantibus, griseis, quandoque subtomentellis, lenticulari-sphæroideis, tenue-membranaceis; contextu parenchymatico-celluloso, 150–200 μ. d.; sporulis hyalinis, granuloso-nubiloso-farctis, ovoideis vel ellipticis, 6–8 ≃ 2–3, eguttulatis. 902

Hab. in seminibus maturis Castaneæ vescæ cortice integro vestitis, adhuc vegetis, Conegliano in Italia bor. et Lyon in Gallia. In utroque loco (mirum!) socia adest *Mycogone cervina* Link.

524. **Phoma brunneotincta** B. et C. (Citatur in Rep. on the St. Mus. New York). 903

Hab. in interiore parte Castanearum coctarum, Buffalo in Amer. bor. (Clinton). — Diagnosis desideratur.

525. **Phoma Amenti** (C. et H.) Sacc. *Sphæropsis Amenti* Cooke et Hark. in Grevillea 1881, p. 82. — Peritheciis minimis, membranaceis, sparsis, convexis, brunneis; sporulis ellipticis, hyalinis, continuis, 10 ≃ 5. 904

Hab. in amentis Alni, in America bor.

526. **Phoma nyssocarpa** Cooke in Grevillea. — Sparsa; peritheciis epidermide tectis, vix prominulis; sporulis ellipticis, hyalinis, 7 ≃ 3. 905

Hab. in fructibus Nyssæ, Aiken Amer. bor. (Ravenel).

527. **Phoma Juglandis** (Preuss) Sacc. *Nemaspora Juglandis* Preuss Hoyersw. n. 149. — Pustulis hemisphæricis gregariis; peritheciis ostiolo centrali pertusis; nucleo pulposo candido, in cirros tenellos, longos, tortos, subdiaphanos pallidos eructato; sporulis fusiformibus, utrinque rotundatis, minutis, albis; basidiis filiformibus. 906

Hab. in nucibus immaturis nigrescentibus Juglandium, prope Hoyerswerda.

528. **Phoma pomorum** Thüm. Fungi Pom. p. 105. — Peritheciis subdepresso-globosis, sparsis, paucis, semiemergentibus, atris in macula plus minusve orbiculata, depresso-applanata, arescendo nivea, indurata, margine distincto, angusto, lineariformi, purpureo-nigro; sporulis paucis, ellipsoideo-globulosis, nubiloso-cinerescentibus, subdiaphanis, enucleatis, 5–7 μ. diam. 907

Hab. in fructibus maturis vivis Piri Mali, Bayreuth in Bavaria.

529. **Phoma malorum** (Berk.) Sacc. *Sphæropsis Malorum* Berk. Outl. 908

p. 316. — Peritheciis globosis vel subglobosis, cuticulà nigrificata tectis, ostiolis erumpentibus longiuscule papillatis; stromate nigricante; sporulis ellipsoideis, tunicatis, granulosis, chlorinis, 30 μ. longis.

Hab. in fructibus Mali humistratis vel adhuc pendulis, in Britannia et America bor. — « An demum *Diplodia?* ».

530. **Phoma Aceris-Negundinis** Arcang. Erb. Critt. It. Ser. II. n. 1379. 909
— Peritheciis sparsis; sporulis ellipticis, utroque fine bi-triguttulatis, 8 ≃ 3.

Hab. in fructibus exsiccatis Aceris Negundinis, in horto botanico pisano (Arcangeli).

531. **Phoma samaricola** Sacc. *Sphæropsis Samarorum* Mont. Cent. 910
VI. n. 89, in Ann. 3, XII. p. 307 et Syll. n. 965. — Peritheciis innatis cuticula tectis, globoso-depressis, atris, albo-farctis; sporulis oblongis, hyalinis, granulosis, primitus sat longe pedicellatis, 20–30 ≃ 7–8.

Hab. in fructu (non in alis) Aceris Negundinis, in horto botanico massiliensi in Gallia (Castagne), et Coimbra in Lusitania (Moller).

532. **Phoma samararum** Desm. Crypt. Fr. ed. II. n. 148. — Perithe- 911
ciis exiguis, convexis, nigris, epidermide dein fissa tectis, pertusis; poro subinde rimoso epidermide dealbata cincto; sporulis minutis, oblongo-ellipsoideis, 2-guttulatis, 7 μ. longis.

Hab. in samaris dejectis Fraxini excelsioris, rarius Aceris et Paliuri, in Italia, Gallia, Belgio, Germania et Britannia.

533. **Phoma pterophila** (Nits.) Fuck. Symb. myc. p. 377, *Sphæria* 912
pterophila Nits. — Peritheciis majusculis, gregariis globoso-depressis, pertusis atris; sporulis oblongis, 8 ≃ 3, biguttatis, hyalinis, basidiis filiformibus suffultis.

Hab. in samaris dejectis Fraxini excelsioris, in Germania, Italia et Gallia. — A *Phoma samararum* Desm. peritheciis multo majoribus imprimis differt. *Diaporthes samaricolæ* Plow. verisimiliter uti status spermogonicus habenda est.

534. **Phoma siliquæ** Sacc. Mich. II. p. 272. — Peritheciis gregariis, 913
innato-erumpentibus, globoso-conoideis, $^1/_6$ mill. diam., nigris; sporulis minutis, oblongo-ovoideis, 4 ≃ 1, hyalinis.

Hab. in siliquis Cheiranthi Cheiri, Possagno in Italia bor. (A. Rossi).

535. **Phoma siliquarum** Sacc. et Roum. Reliq. Lib. V. n. 80. — Pe- 914

ritheciis laxe gregariis, tectis, globoso-depressis, papillulatis, 1/5 mill. d., atris; sporulis oblongis, 8 ≃ 3; basidiis bacillaribus, paulo brevioribus.

Hab. in siliquis Brassicæ, sæpius in earumdem areis dealbatis, in Germania et Gallia.

536. **Phoma Siliquastrum** Desm. XVII. Not. p. 8. — Maculis oblongis olivaceo-brunneis; peritheciis numerosis, minutissimis, approximatis, fusco-nigris, poro apertis; sporulis perexiguis, oblongis, 2-guttatis, 5 μ. longis. 915

Hab. in siliquis pedunculisque Brassicæ, in Gallia.

537. **Phoma morphæa** Sacc. Mich. II. p. 273. — Peritheciis gregariis, subcutaneo-erumpentibus, globoso-depressis, 150 μ. diam., poro pertusis; contextu minute parenchymatico fuligineo; sporulis oblongis, utrinque rotundatis, 7-8 ≃ 2½, inæquilateralibus, hyalinis, 2-guttulatis, basidiis fasciculatis, deorsum crassiusculis, 18-20 ≃ 2-3, suffultis. 916

Hab. in stigmate fructus Papaveris somniferi, Conegliano in Italia boreali (Spegazzini).

538. **Phoma Bellynckii** West. Exs. n. 630. — Peritheciis innatis dein, epidermide secedente, superficialibus, punctiformibus, sparsis, globulosis, membranaceis, atro-fuscis; nucleo albo; sporulis ovoideo-oblongis, 2-guttulatis. 917

Hab. in squamis involucri floralis Cynaræ Scolymi et C. Cardunculi, in Belgio et Gallia.

539. **Phoma Liriodendri** West. Exs. n. 967, Lamb. Myc. Belg. III. p. 83 (sub *Ceuthospora Liriodendri*). — Peritheciis minutis, nitidis, atris, sparsis, initio epidermide atrata tectis, dein erumpentiliberis; ostiolo papillato, plus v. minus elongato; nucleo albo; sporulis ovoideo-oblongis, 2-guttatis, hyalinis. 918

Hab. in fructibus Liriodendri Tulipiferæ, Namur in Belgio (Bellynck). — Diagnosis allata nullo modo cum *Ceuthospora* congruit. *Ph. Liriodendri* West. ramicola in Thüm. Fung. Litor. n. 170 (Gorizia) forte speciem alienam sistit.

540. **Phoma eriophora** B. et Br. Ann. N. H. n. 812. — Peritheciis globosis, liberis initio pallidis, denique nigricantibus, deorsum albo v. flavido-tomentellis, e mycelio simili emergentibus; contextu rubescente; sporulis copiosissimis, curvulis, hyalinis, 6 μ. longis. 919

Hab. in fructibus Æsculi Hippocastani, in Britannia.

541. **Phoma platensis** Speg. Arg. Pug. II. p. 34. — Peritheciis globoso-lenticularibus, tectis sed prominulis, atris, ostiolo papillato, 920

perforante donatis, $^1/_3$-$^1/_2$ μ. diam.; contextu dense parenchymatico, fuligineo-atro; sporulis ellipticis, utrinque acutiuscule rotundatis, biguttulatis, hyalinis, 5-8 ≃ 2-3, in sterigmatibus filiformibus, hyalinis, 15-20 ≃ 1, acrogenis.

Hab. in fructibus exsiccatis vetustis Solani elæagnifolii, in pratis circa Chacarita in America meridionali.

542. **Phoma carpophila** (Lév.) Sacc. *Sphæropsis carpophila* Lév. Ann. Sc. Nat. 1845, p. 62. — Erumpens; peritheciis sparsis subconicis, basi applanatis, epidermide fissa tectis; ostiolis papillatis; sporulis ellipsoideis, continuis, hyalinis. 921

Hab. ad fructus Lauri Ravensaræ («?»), in Madagascar.

543. **Phoma Leburtonii** West. Bull. Ac. Belg. t. XIX. n. 9. — Peritheciis sparsis, exiguis, punctiformibus, atro-nitidis, immersis; ostiolo papillato; nucleo albido; sporulis minutissimis, ovoideis, hyalinis, 2-guttulatis. 922

Hab. in seminibus Althææ roseæ, Louvain in Belgio (Leburton).

544. **Phoma folliculorum** (Lév.) Sacc. *Sphæropsis folliculorum* Lév. Ann. Sc. Nat. p. 63. — Erumpens; peritheciis gregariis, subtectis, glabris, nigris, conicis, circa ostiolum papillatum depressis, macula albicante insidentibus; sporulis ovoideis, continuis, hyalinis. 923

Hab. ad folliculos Asclepiadis curassavicæ (herb. Decaisne).

545. **Phoma Vincetoxici** West. Exs. n. 1134, Mich. I. p. 272. — Peritheciis gregariis atro-brunneis, epidermide diaphana tectis erumpentibusque, exiguis, poro pertusis; sporulis ovoideis, hyalinis, biguttulatis, 7,5-8 ≃ 3-4. 924

Hab. in folliculis ramulisque Cynanchi Vincetoxici, in Belgio et Italia boreali.

546. **Phoma deusta** Fuck. Symb. myc. p. 377. *Sphæronæma Rhinanthi* Lib. Exs. p. 263. *Sphæria Rhinanthi* Sommerf.? — Peritheciis tectis, in macula atro-fusca, minutis, ostiolis truncatis, prominulis; sporulis in sporophororum filiformium, simplicium apicibus, cylindraceis, rectis, simplicibus, 10 ≃ 2, hyalinis. 925

Hab. in bracteis, capsulis, caulibusque Rhinanthi minoris et R. cristæ-galli, in Germania et Belgio.

547. **Phoma Catalpæ** (Thüm.) Sacc. *Sphæropsis Catalpæ* Thüm. F. Austr. n. 80. — Peritheciis sparsis, ellipticis, conico-emersis, pustulæformibus, mediis, fusco-atris; sporulis ellipsoideis vel longe 926

ovatis, utrinque rotundatis, simplicibus, interdum medio subconstrictis, achrois, 8-12 ≃ 4.

Hab. in capsulis emortuis Catalpæ syringifoliæ, Vindobonæ in Austria (Thümen).

548. **Phoma carpogena** Sacc. et Roum. Mich. II. p. 339. — Peritheciis sparsis majusculis, ½ mill. d., globoso-depressis, atronitidulis, initio velatis; sporulis fusoideis, 6-8 ≃ 2½, biguttulatis, hyalinis. 927

Hab. in interiore capsularum Catalpæ syringifoliæ, pr. Toulouse in Gallia. — Forte Diaporthes spissæ Sacc. et Speg. spermogonium.

549. **Phoma dalmatica** (Thüm.) Sacc. *Phyllosticta dalmatica* Thüm. Pilze d. Œlb. p. 40. — Peritheciis solitariis sparsis, sub epidermide nidulantibus subimmersisque, punctiformibus, majusculis, nigris, in macula suborbiculari fusca, pruinosa, marginata sitis; sporulis clavato-fusoideis, apice subacutatis, basi incrassato-rotundatis, continuis, rectis v. interdum curvulis, hyalinis, nubilosis, 22 ≃ 6-7. 928

Hab. in fructibus Oleæ europææ, in Austria.

550. **Phoma Olivarum** Thüm. Pilze d. Œlb. p. 40. — Peritheciis densis submagnis, hemisphæricis, emergentibus, subinde confluentibus, nigris; sporulis breve cylindraceo-ellipsoideis, utrinque rotundatis, grosse 2-nucleatis, 3-5 ≃ 1,5-2, hyalinis. 929

Hab. in fructibus Oleæ europææ, in Austria.

551. **Phoma Passifloræ** Penz. et Sacc. F. Mortol. n. 24. tav. IV. fig. 11. — Peritheciis laxe congregatis, minutis, aterrimis, hypodermicis, dein prorumpentibus, globosis, duris, carbonaceis; sporulis ellipticis, acutiusculis, biguttulatis, hyalinis, 7-8 ≃ 3-3,5; basidiis dense cæspitosis, simplicibus, integris, hyalinis, 11-12 ≃ 2-2,5. 930

Hab. in pedunculis exsiccatis Passiflorae hybridæ, Mortola in Ital. bor.

552. **Phoma fallax** Berk. in Fl. New Zeal. p. 193. — Peritheciis subglobosis fuscis supra translucidis; sporulis oblongis, subcymbiformibus, hyalinis, 14-15 μ. longis. 931

Hab. in fructu Rhipogoni parviflori, Bay of Islands Novæ Zelandiæ (Hooker).

IV. *In Monocotyledoneis.*

553. **Phoma cocoina** Cooke in Grevillea, t. 86, fig. 4. — Sparsa; peritheciis erumpentibus, demum detectis, globosis, atris; sporulis minutis, arcte ellipticis, hyalinis, 8 μ. longis. 932

Hab. in petiolis vetustis Cocos nuciferæ, Demerara in India.

554. **Phoma Palmarum** (Cooke) Sacc. *Sphæropsis palmarum* Cooke in Grevillea t. 86, f. 1. — Erumpens; peritheciis subglobosis, applanatis, demum superne detectis, atris; sporulis ellipticis, hyalinis, intus granulosis, 20 ≃ 12. 933

Hab. in petiolis nervisque Cocos nuciferæ, Demerara in India.

555. **Phoma striolata** Speg. Revue myc. II. p. 161. — Peritheciis subglobosis, minutis, 100–110 μ. diam., stromate nigro lineariter elongato subepidermico immersis; sporulis copiosis, hyalinis, 1–2-guttulatis, 5–7 ≃ 3–4. 934

Hab. in spatha dejecta putrescente Cocos nuciferæ, S. Vincent insula Africæ.

556. **Phoma maculata** (Cooke et Harkn.) Sacc. *Sphæropsis maculata* Cooke et Harkn. in Grevillea n. 64. — Maculis atris, effusis, difformibus; peritheciis gregariis, magnis, globosis, rugulosis, erumpentibus; sporulis ellipticis, profusis, hyalinis, 10 ≃ 5. 935

Hab. in foliis v. petiolis v. stipitibus Palmarum, in California.

557. **Phoma Pritchardiæ** Cooke et Harkn. in Grevillea n. 64. — Subgregaria; peritheciis semiimmersis primo tectis, atris, nitidis, poro pertusis; sporulis cylindrico-ellipticis, utrinque obtusis, continuis, binucleatis, hyalinis, 14 ≃ 3. 936

Hab. in foliis Pritchardiæ, in California.

558. **Phoma Desmonci** Rabenh. Hedw. 78, p. 60. — Peritheciis.....; sporulis cylindraceis, rectis curvatisve, utroque polo obtusis, 5 ≃ 1,5–2. 937

Hab. in foliis Desmonci melanochæti, in India or.

559. **Phoma Sabaleos** Ces. Hedw. 1882, p. 10. — Erumpens, subhemisphærica, membranacea, contextu minute celluloso; sporulis ellipticis, acutiusculis, pallidis, 6 ≃ 4. 938

Hab. in lamina exsiccata foliorum Sabal Adansonii, in horto botanico neapolitano.

560. **Phoma Pandani** (Lév.) Sacc. *Sphæropsis Pandani* Lév. Ann. Sc. Nat. 1846, p. 293. — Peritheciis confertis, erumpentibus, subglobosis, intus albis, receptaculo effuso, nigro, tenui insidentibus, ostiolis subobsoletis pertusis; nucleo albo; sporulis magnis ovatis continuis vel bilocularibus. 939

Hab. ad fructus Pandanorum (Gaudichaud in herb. Mus. Par.). — Si sporulæ vere biloculares, a *Phoma* nimis differret.

561. **Phoma alliicola** Sacc. et Roum. Reliq. Lib. Ser. IV. n. 79. — 940

Peritheciis gregariis, epidermide secedente superficialibus, globulosis, aterrimis, exiguis, vix 130 μ. diam., obtusis, vertice pertusis; sporulis oblongis, biguttulatis, 5 ≃ 2, hyalinis; basidiis obsoletis.

Hab. in caule Alliorum, Malmedy (Libert).

562. **Phoma Agapanthi** (Thüm.) Sacc. *Sphæropsis Agapanthi* Thüm. 941
Contr. Myc. Lusit. n. 319. — Peritheciis sparsis, emersis, sublinearifformibus, primo epidermide tectis, demum liberis, subelevatis, aterrimis; sporulis ellipsoideis, utrinque subacutiusculis, continuis, griseis, 6–10 ≃ 4.

Hab. ad scapos emortuos Agapanthi umbellati, in horto botanico, Coimbra Lusitaniæ (Moller).

563. **Phoma Ornithogali** Thüm. in Flora. — Peritheciis dense gre- 942
gariis, colonias irregulares, magnas formans, subparvis, semiimmersis, liberis, globoso-depressis, fusco-nitidis; sporulis numerosis, ellipticis vel cylindrico-ovoideis, vertice rotundato-dilatatis, apice angustatis et subobtuso-acutatulis, simplicibus, binucleatis, achrois, 4–5 ≃ 1,5.

Hab. ad caules emortuos Ornithogali altissimi, pr. Somerset-East, Promont. bonæ spei (Mac-Owan).

564. **Phoma Liliacearum** West. 5. Not. p. 20. — Peritheciis innatis, 943
ovoideo-oblongis, secundum fibras dispositis seriatisque; ostiolo poriformi; sporulis ovoideis, hyalinis, 2-guttulatis, 7,5–1–2.

Hab. in pedunculis Hemerocallidis fulvæ, in Belgio.

565. **Phoma crocophila** (Mont.) Sacc. *Perisporium cracophilum* Mont. 944
Syll. n. 902 et Étude microgr. du Tacon (Maladie du safran), in Mém. Soc. de Biologie, tom. I. 1849, p. 68, et interpr. angl., in Journ. of the Hortic. Soc., 1849, cum icone. — Peritheciis minutis, ovoideo-globosis, atro-nitentibus, apice poro pertusis, e basi fibras irradiantes emittentibus; nucleo primitus celluloso, cellulis subconcatenatis; sporulis globosis minimis.

Hab. in bulbis Croci sativi, morbo nomine *Tacon* nuncupato vitiatis, in Gallia.

566. **Phoma macrothecia** Thüm. in Flora 1876, p. 571. — Perithe- 945
ciis amphigenis, sed præcipue epiphyllis, exsertis tuberculiformibus, orbicularibus, epidermide expallescenti tectis, postremo liberis, atris; sporulis numerosissimis, longo-ovoideis, utrinque leniter acutatis, binucleatis, interdum concatenatis (?), 10–12 ≃ 3,5–4, hyalinis.

Hab. ad folia viva Morææ grandifloræ, in summo monte Boschberg pr. Somerset-East, Promont. bonæ spei (Mac-Owan).

567. **Phoma elongata** (B. et C.) Sacc. *Sphæropsis elongata* B. et C. 946

North Am. Fungi n. 412 (bis). — Peritheciis minutis, nitidis, sparsis; ostiolis breve emergentibus; sporulis oblongis, subfusiformibus, enucleatis, 20 ≃ 3,5–4; sporophoris sursum attenuatis.

Hab. in caulibus Gladioli, Alabama in Amer. bor. (Peters). 947

568. **Phoma Gladioli** (Cooke) Sacc. *Sphæropsis Gladioli* Cooke Grev. XII. p. 23. — Foliicola, gregaria, in maculis pallidis sita; peritheciis minimis, subglobosis, atris; sporulis elongato-ellipsoideis, hyalinis, 20 ≃ 5.

Hab. in foliis Gladioli, in Carolina austr. Americæ borealis (Ravenel).

569. **Phoma microscopica** B. et Br. Ann. N. H. n. 401. — Peritheciis subglobosis, levibus, sparsis, epidermide ad ostiola nigrificatâ velatis, poro pertusis, in areis decoloratis sitis; sporulis oblongo-ellipsoideis, magnitudine satis variis, subinde biguttatis, hyalinis. 948

Hab. in caule emortuo Potamogetonis, in Britannia.

570. **Phoma filamentosa** (Cooke) Sacc. *Sphæropsis filamentosa* Cooke Grev. XII. p. 22. — Peritheciis sparsis, punctiformibus, subglobosis, atris, cuticulâ hyalina tectis; sporulis cylindraceis, utrinque obtusis, hyalinis, 18–20 ≃ 3–4. 949

Hab. in caule Yuccæ filamentosæ, in Carolina Americæ borealis (Ravenel).

571. **Phoma gloriosa** Sacc. Mich. II. p. 274. — Peritheciis amphigenis, subcutaneis, hinc inde gregariis lineâque nigra tortuosa circumdatis, globoso-depressis; sporulis oblongo-ellipsoideis, 2-guttulatis, hyalinis, 8 ≃ 3, basidiis bacillaribus, 15 ≃ 2, curvulis suffultis. 950

Hab. in foliis putrescentibus Yuccæ gloriosæ, Selva et Crespano in Italia boreali. — Spermogonium *Diaporthes* (A. Rossi).

572. **Phoma Yuccæ** Cooke in Grevillea. — Sparsa, tecta; peritheciis prominulis, papillatis; sporulis ellipticis, utrinque nucleatis, hyalinis, 9 ≃ 3. 951

Hab. in foliis Yuccæ, Aiken in Carolina Amer. bor.

573. **Phoma Dasylirii** Ces. Hedw. 82, p. 9. Rabh. FE. 2655. — Peritheciis hyalinis tenuissimis, lanâ viridula primitus obductis (?); sporulis olivaceis, irregulariter lato-ellipticis, 7 ≃ 6. 952

Hab. in foliis Dasylirii juncei, in horto botanico neapolitano Ital. austr.

574. **Phoma æquivoca** (Ces.) Sacc. *Sphæropsis æquivoca* Ces. Hedw. 1882, p. 9 et Fungi Eur. n. 2655. — Peritheciis laxe cellulosis; sporulis elongatis obscurissime (?) 1-septatis, irregulariter linguiformibus, 24 μ. longis, hyalinis. 953

Hab. in foliis Dasylirii juncei, in horto botanico neapolitano (Cesati).

575. **Phoma brunneola** (B. et C.) Sacc. *Sphæropsis brunneola* B. et C. North Am. F. n. 416. — Peritheciis epidermide brunneola tectis, hysteriiformibus; sporulis breviter subfusiformibus, subinde apice crassioribus, 10 μ. longis. 954

Hab. in ramis Smilacis rotundifoliæ, New England in America boreali (Sprague).

576. **Phoma smilacina** (Peck) Sacc. *Sphæropsis smilacina* Peck 33 Rep. St. Mus. 24. — Maculis orbicularibus, 4-6 mill. diam., arescendo dealbatis, fusco-marginatis; peritheciis epiphyllis, subhemisphæricis v. depressis, nigris, sæpe concentrice dispositis; sporulis oblongis v. subfusoideis, hyalinis, 20-30 ≃ 7,5. 955

Hab. in foliis subvivis Smilacis rotundifoliæ, Wading River in America boreali.

577. **Phoma atomoides** Penz. et Sacc. F. Mortol. n. 17, tav. IV. fig. 5 (sub nom. *atomospora*, sed non Cooke). — Peritheciis dense congregatis, minusculis, epidermide tectis, dein prorumpentibus, sphæroideis, papillatis, aterrimis, 180-220 μ. diam.; contextu parenchymatico; sporulis minutissimis, 0,7-1 ≃ 0,3-0,4, cylindraceis, utrinque rotundatis, medio haud constrictis, hyalinis, eguttulatis; basidiis obsoletis. 956

Hab. in ramulis inflorescentiæ Agaves sp. Mortola in Italia boreali.

578. **Phoma brevipes** Penz. et Sacc. F. Mortol. n. 18, tav. IV. fig. 6. — Peritheciis laxe congregatis, hypodermicis, solo ostiolo papilloso prominente, globosis, haud depressis, nigerrimis, contextu duro, parenchymatico; sporulis ellipsoideis, utrinque acutiusculis, hyalinis, eguttulatis, plasmate granuloso farctis, 13-16 ≃ 7-8, basidiis brevissimis, papilliformibus, hyalinis, 2-3, suffultis. 957

Hab. sub epidermide scapi floralis Agaves sp. Mortola in Italia boreali.

579. **Phoma Debeauxiana** Sacc. *Glœosporium Debeauxii* Roum. Rev. Myc. V. p. 28. — Peritheciis globosis, nigris, aggregatis, in maculis subcircularibus, confluentibus, albidis, dein fuscis, margine elevato purpureo; sporulis elongatis, rectis, utrinque obtusis, 12 ≃ 2. 958

Hab. in foliis Aloes spicatæ, Oran in Algeria (Debeaux). — « Cum perithecia describantur, species *Phomæ* videtur ».

580. **Phoma Fourcroyæ** Thüm. Contr. Myc. Lus. n. 332. — Peritheciis numerosis, epiphyllis, dense gregariis, conico-elevatis, par- 959

vulis, aterrimis, ostiolatis, primo epidermide papyraceo-membranacea, scariosa tectis, demum liberis; sporulis numerosissimis, ellipsoideis vel ovatis, simplicibus, enucleatis vel cum nucleo unico minimo, achrois, 3,5-5 ≃ 1,5-2.

Hab. ad folia emortua Fourcroyæ giganteæ, Coimbra Lusitaniæ in horto botanico (Moller).

581. **Phoma Polygonati** Thüm. Pilzfl. Sib. n. 603. — Peritheciis numerosissimis, densissime gregariis, lenticulari-disciformibus, ovalibus, applanatis, obscure fuscis vel fere nigris, submagnis; sporulis numerosis, bacillari-cylindricis, utrinque rotundato-obtusis, simplicibus, enucleatis, achrois, 4-6 ≃ 2-2,5. 960

Hab. in caulibus emortuis Polygonati vulgaris, prope Petroschilowo in Sibiria asiatica.

582. **Phoma Convallariæ** West. Bull. Ac. Belg. XIX. n. 9. — Peritheciis subglobosis vel oblongis, innatis, sparsis, minutis, atris, papillulatis; nucleo albo; sporulis ovoideis, minutis, biguttulatis. 961

Hab. in foliis Polygonati multiflori, in Belgio. — Spermogonium *Diaporthes*. — ***Ph. polygonatea** Sacc. cfr. Mich. II. p. 617: peritheciis oblongis, intus subgriseis; sporulis oblongis, utrinque rotundatis, 9-10 ≃ 3, hyalinis. In caule emortuo Polygonati vulgaris, Rouen in Gallia.

583. **Phoma Solierii** (Mont.) Sacc. Mich. I. p. 525, *Ascospora Solierii* Mont. Syll. n. 1001. — Peritheciis punctiformibus, globosis, depressis, epidermide atrata tectis, ostiolo late umbilicato prominulo; sporulis cylindraceo-oblongis, utrinque rotundatis, 2-guttatis vel nubilosis, 28-30 ≃ 6, hyalinis (20 ≃ 7 et 4-guttatis sec. Mont.). 962

Hab. in caule Asphodeli racemosi et Asph. albi, in Gallia.

584. **Phoma Asphodeli** Sacc. Mich. I. p. 521. — Stromate longitudinaliter effuso, nigricante; peritheciis gregariis, innato-erumpentibus, globulosis, 100-120 μ. diam., pertusis; sporulis ovato-oblongis, 8 ≃ 3, 2-guttatis, hyalinis; basidiis acicularibus sesquilongioribus. 963

Hab. in caule putrescente Asphodeli, Rouen in Gallia (Letendre). — Spermogonium *Diaporthes*.

585. **Phoma asphodelina** Thüm. Contr. Myc. Lusit. I. n. 156. — Peritheciis sparsis, pro ratione mediis, subimmersis, conicis, atris, obsolete angustissime fusco-cinctis; sporulis ellipsoideis, utrinque rotundatis, enucleatis, hyalinis, 4-6 ≃ 2-3,5. 964

Hab. in capsulis aridis adhuc pendulis prope Penedo da Saudade in Lusitania (Mesnier). — A *Ph. Asphodeli* Sacc., caulicola, satis differre videtur.

586. **Phoma Cordylines** (Thüm.) Sacc. *Sphæropsis Cordylines* Thüm. Contr. F. Lusit. n. 554. — Peritheciis numerosis, dense gregariis, hypophyllis, diu tectis pustulæformibus, dein liberis et apice poro centrali pertusis, aterrimis; sporulis longe ellipticis, utrinque rotundatis, nucleolatis vel endoplasmate grumuloso, continuis, hyalinis, 13–15 ≃ 6–8, basidiis fasciculatis, brevibus, subrectis, hyalinis fultis. 965

Hab. in foliis emortuis Cordylines australis, in horto botanico Coimbra Lusitaniæ (Moller).

587. **Phoma Asparagi** Sacc. Mich. I. p. 257. — Peritheciis gregariis, epidermide velatis, globoso-depressis; sporulis oblongis, 7–8 ≃ 3, 2-guttulatis, hyalinis; basidiis nullis visis. 966

Hab. in caulibus putrescentibus Asparagi officinalis, in Italia bor., Gallia et Sibiria. — Spermogonium *Diaporthes Asparagi* Nits.

588. **Phoma lanceolata** (C. et E.) Sacc. *Sphæropsis lanceolata* C. et E. in Grevillea. — Sparsa, epidermide nigrificata tecta; peritheciis brunneis, submembranaceis, poro pertusis; sporulis lanceolatis, hyalinis, rectis, granulis repletis, 30 ≃ 7. 967

Hab. in caule Asparagi, New Jersey in Amer. bor. (Ellis).

589. **Phoma Rusci** West. Bull. Ac. Belg. Ser. II. t. 7. n. 5. — Peritheciis amphigenis, sparsis, nigris, innatis; ostiolo papillato epidermidem elevante et perforante; sporulis ovoideo-elongatis, hyalinis. 968

Hab. in foliis (cladodiis) Rusci aculeati, in Belgio et Lusitania.

590. **Phoma Hippoglossi** (Mont.) Sacc. *Sphæropsis Hippoglossi* Mont. Syll. n. 966. — Peritheciis in maculâ pallidâ nunc indeterminatâ, nunc rufo-cinctâ gregariis, epidermide velatis, globoso-depressis, $^1/_{10}$ mill. diam., poro albo pertusis; sporulis globoso-ovoideis, 10–12 ≃ 8–11, guttulis minutis farctis, hyalinis, initio brevissime stipitellatis. 969

Hab. in cladodiis languidis Rusci Hippoglossi et R. aculeati, in Gallia et Italia.

591. **Phoma Strelitziæ** Thüm. Contr. Myc. Lus. I. p. 22. — Peritheciis epiphyllis, dense gregariis, fere lineariformi-dispositis in areis maximis, irregularibus, cinereis, primo epidermide tectis, demum ostiolo 970

minutissimo conico pertusis, atris, globosis, parvis; sporulis minutis, ellipticis vel globosis, 1,5 μ. diam., achrois.

Hab. ad folia emortua Strelitzæ augustæ, prope Lisboa in Lusitania.

592. **Phoma Musarum** Cooke Grev. XII. pag. 22. — Minuta, sparsa, punctiformis; peritheciis subglobosis, atris, epidermide tenui tectis; sporulis ellipsoideo-elongatis, 10 ≃ 3. 971

Hab. in petiolis Musarum, Georgia in Amer. bor. (Ravenel).

593. **Phoma Musæ** (Cooke) Sacc. *Sphæropsis? Musarum* Cooke in Grevillea. — Peritheciis semiimmersis, atris, nitidis, subconicis, in maculis parvulis congestis; sporulis subglobosis vel ovatis vel ellipticis, hyalinis, 12–22 ≃ 10–14; basidiis nullis visis. 972

Hab. in Musa paradisiaca, Belgaum in India orientali.

594. **Phoma Oncidii** Speg. F. Arg. Pug. V. n. 277. — Maculis nullis; peritheciis parvis, lenticularibus, 90–100 μ. diam., epidermide tectis eaque adnatis, tenui-membranaceis, contextu parenchymatico, olivaceo; sporulis ellipticis vel navicularibus, utrinque obtusissime rotundatis ac 1-guttulatis, 4 ≃ 2, hyalinis. 973

Hab. ad scapos aridos Oncidii speciei cujusdam in truncis vetustis, in silvis de Corrientes Argentinæ.

595. **Phoma Orchidearum** Ces. Myc. Born. — Peritheciis epidermide obtectis, microscopicis, in greges minutos compositis, membranaceis, depresso-globosis. 974

Hab. ad folia Orchideæ majoris, Ceylon Peradenya.

596. **Phoma corrientina** Speg. F. Arg. Pug. IV. n. 275. — Maculis latissimis, indeterminatis, arescenti-albis; peritheciis hinc inde sparsis, globosis, 150–180 μ. diam., immersis, atris, crassiuscule membranaceis, coriacellis, contextu indistincto, opaco, fuligineo; sterigmatibus cylindraceis, erectis, 15 ≃ 1,5–2, dense constipatis, hyalinis; sporulis acrogenis, ellipticis, sæpius inæquilateralibus, utrinque plus minusve acutatis ac 1-guttulatis, 9–10 ≃ 3, hyalinis. 975

Hab. in foliis emortuis putrescentibus Oncidii speciei cujusdam ad truncos vetustos, in silvis de Corrientes Argentinæ.

597. **Phoma Surinamensis** (B. et C.) Sacc. *Sphæropsis surinamensis* B. et C. Exot. F. Schwein. p. 280. — Sparsa nigra; peritheciis depresso-globosis; sporulis hyalinis, elliptico-oblongis, majoribus, 24–28 μ. long. 976

Hab. in petiolis foliorum Caladii cujusdam, Surinam.

598. **Phoma Typharum** Sacc. *Pleosporæ* (Leptosphæriæ) *Typharum* Pycnidium Fuck. Symb. p. 137. — Peritheciis minutis, subliberis, 977

globoso-conicis; ostiolis perithecium subæquantibus; sporulis minutissimis, cylindraceis, curvatis, hyalinis.

Hab. in foliis putrescentibus Typhæ latifoliæ, in Rhenogovia.

599. **Phoma lacustris** Karst. Hedw. 1884, p. 58. — Peritheciis sub- 978
gregariis, innatis, sphæroideis, atris, punctiformibus; sporulis oblongatis vel elongatis, rectis, hyalinis, 7-12 ≃ 2,5-4.

Hab. in calamis emortuis Scirpi lacustris, prope Mustiala Fenniæ.

600. **Phoma Caricis** (Fr.) Sacc. *Sphæropsis Caricis* (Fr.) Kickx Flandr. 979
I. p. 403. — Peritheciis nigris, globulosis, astomis, membranaceis, seriato-aggregatis, subinde confluentibus, innatis, epidermide nigrificata tectis, dein erumpentibus; sporulis cylindraceo-oblongis, obtusis, hyalinis.

Hab. in foliis Caricis stellulatæ, in Belgio.

601. **Phoma caricina** (Thüm.) Sacc. *Sphæropsis caricina* Thüm. 980
Contr. Myc. Lus. n. 324. — Peritheciis numerosis, gregariis, hemisphærico-punctiformibus, primo epidermide tectis, dein poro pertusis, glauco-atris; sporulis magnis, ellipticis, utrinque rotundatis, interdum nucleatis, continuis, episporio subcrasso, achrois, 20-22 ≃ 10; basidiis brevissimis.

Hab. ad culmos emortuos Caricis maximæ, Fonte do Castanheiro prope Coimbra in Lusitania (P. G. Mesnier).

602. **Phoma Junci** Preuss Hoyersw. n. 281. — Tecta, dein rimosa, 981
seriato-erumpens, subrotunda, tuberculosa; peritheciis seriatis, nigro-farctis, stromate nigricante primo immersis; sporulis fusiformibus, utrinque subacutis cum guttulis oleosis.

Hab. in culmis exsiccatis Junci conglomerati, prope Hoyerswerda.

603. **Phoma neglecta** Desm. 22 Not. pag. 8. — Peritheciis paucis, 982
sparsis, ovatis, prominentibus, nigris, nitidis, intus albis, poro pertusis, epidermide integra aut tandem fissa tectis; sporulis oblongis, 5 ≃ 1,7.

Hab. in pedunculis et squamis exsiccatis Junci maritimi, in Gallia.

604. **Phoma arundinacea** (Berk.) Sacc. *Sphæropsis arundinacea* Berk. 983
Outl. p. 316. — Peritheciis uni-biseriatis, subconnatis; ostiolo obsoleto; sporulis oblongis, 8-10 ≃ 3-4, 2-guttatis, hyalinis.

Hab. in culmis Phragmitis, in Britannia, Italia et Gallia.

605. **Phoma occulta** Desm. Exs. n. 1868, Kickx Fl. Fl. I. p. 442. — 984

Peritheciis perexiguis, sparsis, tectis, dein erumpentibus et subsuperficialibus, griseo-fuscis; nucleo albo; ostiolo papillato vel conico-cylindraceo; sporulis ovoideis, copiosis.

Hab. in culmo putri interiore Phragmitis communis, in Belgio (Westendorp) et Gallia (Desmazierii).

606. **Phoma rimosa** West. Not. III. p. 13, Kickx Fl. Fl. I. p. 436. 985
— Peritheciis ovoideis, convexis, plus minusve compressis, pluriseriatis (seriebus approximatis plagulas ovales formantibus), minutis, nigris, astomis, innatis, epidermide nigricante velatis; nucleo albido; sporulis subcylindraceis, angustis, subcurvis, utrinque obsolete 1-guttatis, hyalinis.

Hab. in vaginis siccis Phragmitis communis, prope Gand in Belgio. — Verisimiliter sistit spermogonium *Scirrhiæ rimosæ*.

607. **Phoma vaginæ** Sacc. Mich. II. p. 617 (sub nomine *Sphæropsis* 986
vaginæ Rabh. quæ vero *Hendersonia*). — Peritheciis laxe gregariis, tectis, globoso-depressis, 1/4 mill. diam.; ostiolo vix erumpente; sporulis oblongo-ellipsoideis, 10-15 = 2, hyalinis; basidiis bacillaribus sporulá sublongioribus.

Hab. in vaginis emortuis Phragmitis communis, Lyon in Gallia (Therry).

608. **Phoma donacella** (Thüm.) Sacc., *Coniothyrium donacinum* 987
Thüm. Contr. Myc. Lusit. n. 340. — Peritheciis aut solitariis aut confluenti-aggregatis, punctiformibus, emersis, atris, minutis; sporulis numerosissimis, simplicibus, ellipsoideis, enucleatis, achrois, 3-4 = 1,5.

Hab. in culmis emortuis Donacis arundinaceæ, prope Coimbra in Lusitania (Moller).

609. **Phoma arundinella** Sacc. — Peritheciis globulosis, immersis, 988
atris; sporulis minutissimis oblongis, 3 = 1, hyalinis, basidiis cylindraceis crassiusculis suffultis.

Hab. in culmis Arundinis Donacis, socia *Eutypa arundinacea*, Sacc., cujus forte spermogonium. Cfr. Syll. I. p. 169.

610. **Phoma culmicola** Schw. Syn. Amer. bor. n. 2170. — Sparsa, 989
eleganter erumpens, globosa aut elliptico-elevata, fere semilineam alta, extus atra, rugosa, convexa; ore majusculo, albocincto, aperto; disco pallide flavo excavato; massa interna grumosa; juniori ætate epidermide tecta.

Hab. in culmis Andropogonis scoparii, Bethlehem in America bor.

611. **Phoma viridispora** Cooke in Grevillea. — Sparsa, cuticulá ni- 990

grificatâ tecta; peritheciis applanatis; sporulis cylindrico-ellipticis, rectis, viridibus, 10 ≃ 4.

Hab. ad Phormium, Banks' Peninsula, Dunedin in Nova Zelandia. — «An *Coniothyrium?*».

612. **Phoma Phormii** (Cooke) Sacc. *Coniothyrium Phormium* Cooke in Grevillea. — Gregaria, minima, semiimmersa, elongato-fissa; sporulis hyalinis, ovalibus, 4 ≃ 3. 991

Hab. in foliis Phormii tenacis, in horto botanico Bruxellensi Belgii.

613. **Phoma pelliculosa** B. et Br. F. of Ceyl. n. 801. — Grisea, e matrice secernibilis; peritheciis minutissimis epidermidem elevantibus; ostiolo amplo; sporulis angustis, quam basidio triplo brevioribus, 2,5–3 μ. longis. 992

Hab. in culmo Bambusæ, Peradeniya in Ceylon.

614. **Phoma linearis** (Thüm.) Sacc. *Coniothyrium lineare* Thüm. Fungi Amer. trig. Spec. n. 12. — Cæspitibus linearibus, secundum nervos dispositis, atris, inquinantibus; peritheciis, 200–250 μ. d., globosis, fusco-lutescentibus, episporio levi, granuloso; sporulis ellipsoideis, utrinque rotundatis, sine nucleo, hyalinis, interdum leniter acutatis, 6 ≃ 3–4. 993

Hab. in culmis emortuis Gynerii argentei, Aiken in Carolina austr. (Ravenel).

615. **Phoma Sacchari** (Cooke) Sacc. *Sphæropsis Sacchari* Cooke in Grev. XII. p. 23. — Sparsa vel in plagas irregulares consociata; peritheciis atris, subglobosis, erumpentibus; sporulis lanceolatis, hyalinis, 32–42 ≃ 12. 994

Hab. in culmis Sacchari officinarum, Darien Georgia in Amer. bor. (Ravenel).

616. **Phoma Ammophilæ** Dur. et Mont. Flor. Alg. p. 564, Mont. Syll. n. 901. — Emergens, globosa, minutissima, myriadea, atra, maculæ cinereæ insidens; sporulis..... — Species dubia. 995

Hab. in foliis Ammophilæ arenariæ, La Calle in Algeria (Durieu),

617. **Phoma graminella** Sacc. Mich. I. p. 127. — Peritheciis gregariis, subcutaneis, globoso-depressis, $^1/_6$–$^1/_5$ mill. diam., atris, ostiolo obtusiusculo brevi perforante; contextu perithecii distincte laxiusculè celluloso, fuligineo; sporulis ovato-fusoideis, utrinque acutiusculis, rectis, 15–18 ≃ 4, hyalinis. 996

Hab. in foliis Calamagrostidis, ad Helgoland (P. Magnus).

— Species a *Ph. biocellata* Mont., *Ph. Graminis* West. et *Sphæropside arundinacea* Berk. certe distinguenda.

618. **Phoma nitida** Rob. Des. 22 Not. p. 8. — Epiphylla, sparsa, minuta, nitida; peritheciis hemisphæricis, intus albis, epidermide demum longitudinaliter fissa obtectis; ostiolo papillæformi; sporulis subovoideis, 5 μ. longis. 997

Hab. in foliis exsiccatis Calamagrostidis arenariæ, in Gallia.

619. **Phoma Graminis** West. in Kickx Fl. Flandr. I. p. 441. — Peritheciis globosis vel angulosis, nigris, seriatim dispositis pustulasque elongatas formantibus, rugulosis, atro-griseis; ostiolo papillato; nucleo albo; sporulis ovoideis, 1-2-guttulatis, hyalinis, madore in cirrum expulsis. 998

Hab. in culmo Poæ cujusdam, in Belgio.

620. **Phoma Hennebergii** J. Kühn Hedw. 1877, p. 121. — Peritheciis sparsis, primo tectis, dein apertis, rotundatis, vertice plerumque concavis, 100 μ. diam., atris; nucleo albo; sporulis cylindraceis curvulis vel rectis, 14-18 ≃ 2-2,5, hyalinis. 999

Hab. in valvis, paleis et aristis Tritici vulgaris æstivi, in Germania.

621. **Phoma lophiostomoides** Sacc. Mich. II. p. 338. — Peritheciis seriatim et parallele gregariis, compressis, minutis, nigris, ostiolo subrimoso; sporulis teretiusculis, utrinque rotundatis, 8 ≃ 1, 2-guttulatis, hyalinis, bacillaribus, 18-24 ≃ 2, parce et breve ramulosis suffultis. 1000

Hab. in culmis Tritici vel Secalis, Rouen in Gallia (Letendre).

622. **Phoma biocellata** Mont. Syll. n. 973. — Minutissima, innato-erumpens; peritheciis orbicularibus, depressis, solitariis aut lineari-seriatis, atris, apice poro pertusis; sporulis oblongis, utroque fine guttulam foventibus. 1001

Hab. in culmis Graminum, Chile (Gay).

623. **Phoma hysterioidea** B. et Br. F. of Ceyl. n. 803. — Elliptica, nigra, epidermide cincta, opaca; sporulis oblongis minimis. 1002

Hab. in graminibus Ceylon. — Forte spermogonium *Phyllachoræ graminis*.

V. *In Acotyledoneis.*

624. **Phoma aquilina** Sacc. et Penz. Mich. II. p. 615. — Peritheciis gregariis, subcutaneis, sed parum prominulis, e globoso compres- 1003

siusculis, vix papillatis, 1/6 mill. diam.; sporulis subellipsoideis, 3,6-4 ≃ 2-2,5, eguttulatis, hyalinis; basidiis subnullis.

Hab. in caule submortuo Pteridis aquilinæ, Lyon in Gallia (Therry).

625. **Phoma Equiseti** Desm. Exs. n. 183. — Peritheciis sparsis, globulosis, punctiformibus, epidermide dealbata tectis, poro pertusis; nucleo fusco; sporulis ovoideis, 2-guttulatis, hyalinis. 1004

Hab. in caulibus exsiccatis Equiseti limosi, arvensis, in Gallia, Belgio et Helvetia. — *Phoma Equiseti* Lév. in Ann. H. N. 1846, p. 282 eadem species videtur.

626. **Phoma epitricha** (B. et Br.) Sacc. *Sphæropsis epitricha* B. et Br. Ann. H. N. n. 422. — Peritheciis globosis, subiculo furcato-ramoso cinereo insidentibus; sporulis oblongis, diametro transverso triplo longioribus. 1005

Hab. in caule emortuo Equiseti palustris, Wilts in Britannia. — Filamenta mycelii septata, furcata, apice obtusa, vere peculiaria.

627. **Phoma stelligera** Mont. Syll. n. 986 et Mém. sur la multiplicat. des Charagnes par division, in Ann., 3. XVIII. p. 74, t. 2, f. 13 et 14. — Peritheciis depressis, minutis, dimidiatis, atris; sporulis oblongis, guttulam in utroque fine foventibus. 1006

Hab. ad bulbos peponomorphos vetustos, quibus nodi Charæ (Nitellæ) stelligeræ cinguntur, apud Chabreville (D.ª Dufrénoy) prope Burdigalam (Ramey).

VI. *In insectis, charta, stercore.*

628. **Phoma alicola** Speg. Arg. Pug. II. p. 34. — Peritheciis sparsis, lenticularibus, immersis, 80-100 μ. diam., contextu laxe pareachymatico, fuligineo, ostiolo impresso pertusis, atris; sporulis ellipsoideis vel ovatis sæpe inæquilateralibus, utrinque obtusis, 5-8 ≃ 3, granuloso-farctis, hyalinis. 1007

Hab. in alis putrescentibus Fidicinæ (Cicadæ) bonariensis, cerca de Barracas des Sur in Argentina.

629. **Phoma chartarum** B. et C. North Amer. Fungi n. 390. — Sparsa, e subiculo tenero byssoideo oriunda; peritheciis sparsis; sporulis minimis, 3 μ. longis, subinde in cirrum expulsis. 1008

Hab. in charta alba, Alabama in Amer. bor. (Beaumont).

630. **Phoma charticola** Speg. F. Arg. Pug. n. 99. — Peritheciis subsuperficialibus, lenticularibus, minutis, 80-90 μ. diam., atris, ostiolo impresso perforatis, membranaceis; contextu parenchymatico, fuli- 1009

gineo; sporulis ellipticis, 4-5 ≃ 2-2,5, utrinque obtusiusculis et 1-guttulatis, hyalinis.

Hab. in charta stercorata putrescente in nemorosis de la Recoleta in Argentina.

631. **Phoma fimicola** (West.) Sacc. *Sphæropsis fimicola* West. in Kickx Fl. Fl. I. p. 403. — Peritheciis perexiguis, punctiformibus, sphæricis, nigris, nitidulis, initio immersis, dein superficialibus, ostiolo papillato; sporulis ovatis, hyalinis, majusculis, 20-30 ≃ 13-14. 1010

Hab. in fimo vaccino, in Belgio. — Teste auctore pycnidium sistit *Coprolepæ fimeti.*

632. **Phoma stercoraria** P. et C. Rep. on St. Mus. N. Y. — Peritheciis minutis, membranaceis, sparsis, nigris; sporulis majusculis, ellipsoideis, 12-15 μ. longis. 1011

Hab. in stercore anserino, Portage in Amer. bor. (Clinton).

VII. *Species nomine tantum mihi notæ.*

633. **Phoma Andrachnes** Lév. in Desm. Voy. 110, t. VI. f. 3. — In Tauria. 1012

634. **Phoma Belangerii** West. Bull. Brux. 1852, III. p. 117. — In Belgio. 1013

635. **Phoma clandestina** West. Bull. Brux. 1852, III. p. 117. — In Belgio. 1014

636. **Phoma Dahliæ** Berk. in Sm. Fl. Br. V. p. 284. — In Britannia. 1015

637. **Phoma Laricis** Lév. in Demid. Voy. p. 111. t. 4, f. 5. — In Tauria. 1016

638. **Phoma Podagrariæ** West. Bull. Ac. Brux. 1852, III. p. 116. — In Ægopodio Podagraria in Belgio. 1017

APOSPHÆRIA Berk. Outl. p. 315 emend. Sacc. Mich. II. p. 4 (Etym. *apo* ab, et *Sphæria*). — Perithecia globulosa, papillata, subcarbonacea, superficialia, vel basi ligno vel cortice duriore insculpta. Sporulæ ovoideæ vel oblongæ vel subsphæricæ, continuæ, hyalinæ. Basidia nulla vel exigua. — Est *Phoma* superficialis.

1. **Aposphæria epileuca** (Berk.) Sacc. *Phoma epileuca* Berk. Hook. Journ. 1853, p. 40, t. III. f. 2. — Maculis indeterminatis, albis; peritheciis elongatis; sporulis hyalinis, majusculis, oblongis, enucleatis, 3-4 μ. longis, subinde uno apice crassioribus. 1018

Hab. in assere pineo dealbato, in Britannia et Sibiria.

2. **Aposphæria pinea** Sacc. Mich. I. p. 126 *(Phoma).* — Peritheciis dense gregariis, superficialibus, epixylis, globulosis vix papillatis, 1019

80–150 μ. diam., aterrimis; sporulis cylindraceis, utrinque acutatis, curvulis, 5 ≃ 1, hyalinis.

Hab. in libro putri Pini silvestris, in Germania et Gallia. — *Sphæria pinea* Fuck. Symb. p. 112, nec Desm. (quæ *Diplodia*) est quoque *Phomæ* species: sporulis cylindraceis, curvatis, hyalinis, incolitque folia Pini silvestris in Germania.

3. **Aposphæria? hemisphærica** (A. S.) Sacc. *Sphæronæma hemisphæricum* (A. S.) Fr. S. M. II. p. 539, *Sphæria hemisphærica* A. S. Lus. p. 51, t. 8, f. 8. — Peritheciis hemisphæricis, subellipsoideis, levibus, nigris, globulo albo sublivescente; sporulis in globulum sordidum expulsis, filiformibus. 1020

Hab. in ligno indurato fagineo et pineo, in Germania, Suecia et Belgio. — Sparsa, ligno lævigato innata, depressa, æqualis, coronata globulo regulari mox deciduo, tum poro vel rimula hemiellipsoidea aperta. — An novi generis typus?

4. **Aposphæria hysterella** Sacc. *Sphæronæma subtile* B. et C. North Amer. Fungi n. 407. — Hysteriiformis; sporulis minutis, oblongo-ellipticis, 6–7 μ. longis, episporio hyalino ornatis. 1021

Hab. in ligno pineo, Massachussetts Amer. bor. (Russell).

5. **Aposphæria mediella** Karst. Hedw. 1884, pag. 59. — Peritheciis erumpenti-superficialibus, cæspitose aggregatis vel solitariis, difformibus, rotundatis vel angulosis vel depressiusculis, vix papillatis, demum ore lato apertis, contextu carbonaceo, atris 5 μ. lat.; sporulis ovalibus, hyalinis, 4–6 ≃ 2–3. 1022

Hab. in cortice Pini silvestris, in Fennia saltem australi passim.

6. **Aposphæria collabascens** Schulz. et Sacc. Micr. Slav. n. 53 (*Ph. collabens*), Schulz. Ill. Fung. Slav. n. 707. — Peritheciis superficialibus, globoso-depressis, 160–250 μ. diam., ostiolo impresso pertusis, atris, denique collabascendo exquisite scutellatis; sporulis oblongis, perexiguis, hyalinis, 2,5–3 μ. longis; basidiis nullis vel obsoletis. 1023

Hab. in ligno ramorum emortuorum Piri communis, prope Vinkovce. — *Phomæ labenti* Sacc. affinis videtur.

7. **Aposphæria clypeata** (C. et Ell.) Sacc. *Phoma clypeata* C. et Ell. Grev. V. p. 33, t. 75, fig. 10. — Peritheciis applanatis, papillatis, nigrocinctis, subsparsis, superficialibus; sporulis minutis, ellipticis, hyalinis, 6 μ. longis. 1024

Hab. in ligno putri, Maine New Jersey Amer. bor. (Blake).

8. **Aposphæria Brunaudiana** (Thüm.) Sacc. *Phoma Brunaudiana* 1025

Thüm. in Reuve Mycol. — Peritheciis numerosis, lignicolis, lenticulari-subdisciformibus, emersis vel exsertis, aterrimis; sporulis numerosis, oblongis, utrinque rotundatis, enucleatis, achrois, 4-5 ≃ 2-3.

Hab. in ligno vetusto Fraxini excelsioris, Saintes Galliæ (Brunaud).

9. **Aposphæria bicuspidata** (Berk.) Sacc. *Phoma bicuspidata* Berk. 1026
Ann. N. H. n. 740. — Peritheciis elongatis, nigris, minutis, secundum fibras dispositis, initio sparsis, subinde confluentibus; sporulis breve fusoideis, 2-guttulatis, 7-8 μ. longis, utrinque papillulatis, hyalinis; basidiis brevibus.

Hab. in asseribus pineis, in Britannia.

10. **Aposphæria allantella** Sacc. et Roum. Reliq. Liber. Ser. IV. n. 1027
83. — Peritheciis gregariis, subsuperficialibus, globoso-depressis, vix papillatis, 1/5 mill. diam.; sporulis allantoideis, hyalinis, 5-6 ≃ 1,5; basidiis obsoletis.

Hab. in ligno putri quercino, in Gallia et Germania.

11. **Aposphæria subtilis** (Fr.) Sacc. *Sphæronæma subtile* Fr. in Myc. 1028
Heft. II, p. 57. — Peritheciis globosis, regularibus, levibus, atris; globulo fugaci, exiguo, albido.

Hab. ad ligna mucida Sorbi, Salicis, Coryli etc. in Suecia et Germania. — Sparsa minuta (sed magnitudine varia), subnitens, levis, forma globosa; apex obtusus, poro pertusus.

12. **Aposphæria agminalis** Sacc. Mich. II. p. 379 (*Phoma*). — Peri- 1029
theciis hinc inde dense et late gregariis, subsuperficialibus, punctiformibus, globoso-conicis, 90-100 μ. diam., pertusis, atro-nitidulis; sporulis ellipsoideis, utrinque obtusis, 3 ≃ 2, biguttulatis, hyalinis.

Hab. in ligno indurato Æsculi Hippocastani, Padova Ital. bor. (Bizzozero). — Ab *A. Pulviscula* Sacc. differt sporulis ellipsoideis, ab *A. fuscidula* Sacc. sporulis pariter ellipsoideis et hyalinis. — *Zignoellæ* cujusdam probabile spermogonium.

13. **Aposphæria Calathiscus** (Corda) Sacc. *Sphæronæma calathiscus* 1030
Corda Icon. IV. p. 40, f. 115. — Peritheciis gregariis, minutissimis, epixylis, convexis, rotundis, membranaceis, fuscis, nitidis; ostiolo centrali obtuse papillato; sporulis oblongis, hyalinis, 6-7 μ. long.

Hab. in asseribus putrescentibus Fagi, Reichenberg Bohemiæ.

14. **Aposphæria Rhododendri** (Shw.) Sacc. *Sphæronæma Rhododen-* 1031
dri Schw. Syn. Am. bor. n. 2141. — Peritheciis sparsis, complanatis, subinnatis, ovatis, striatis, nigris; globulo albo deciduo, tum quasi perforata apparent perithecia, ceterum minuta.

Hab. in ligno decorticato Rhododendri, Bethlehem Americæ borealis.

15. **Aposphæria mollis** (Lév.) Sacc. *Sphæropsis mollis* Lév. Ann. Sc. Nat. 1846, p. 295. — Peritheciis gregariis, adnatis, nigris, nudis, hemisphæricis, demum collapsis; ostiolis obsoletis; sporulis ovato-oblongis, obtusis, hyalinis. 1032

Hab. ad ramos Spartii juncei, Marseille Galliæ.

16. **Aposphæria difformis** Sacc. Mich. I. p. 125 (*Phoma*). — Peritheciis gregariis, erumpenti-superficialibus, epixylis, e globoso conoideis difformibusque, $^1/_4$-$^1/_2$ mill. diam., varie breve papillatis, aterrimis, subcarbonaceis; sporulis ellipsoideis, $2^1/_2$-$3 \simeq 2$, hyalinis in basidiis fasciculatis, crassiuscule filiformibus, acrogenis. 1033

Hab. in ligno putri Tiliæ? Berolini (P. Magnus).

17. **Aposphæria stenostoma** (Penz.) Sacc. Penz. Mich. II. p. 432. — Peritheciis laxe gregariis, ligno semiimmersis, atro-brunneis, sphæroideis, vix mammillatis, 110-120 μ. diam.; ostiolo minimo, circulari; sporulis minutis, 2,5-3,5 $\simeq$ 1,5-2, hyalinis, eguttulatis; basidiis fasciculatis, cylindricis, simplicibus, continuis, 10-12 $\simeq$ 1-1,5. 1034

Hab. in ligno vetusto decorticato Citri Aurantii, in frigidariis horti patavini.

18. **Aposphæria sepulta** (Penz.) Sacc. *Phoma sepulta* Penz. Mich. II. p. 431. — Peritheciis sparsis, ligno immersis, minutissimis, 72-90 μ. d., brunneo-atris; ostiolo obsoleto; contextu parenchymatico; sporulis numerosissimis, exiguis, subsphæricis, 3-3,5 μ. d., hyalinis, biguttulatis; basidiis filiformibus, simplicibus, 10-14 $\simeq$ 2-2,5. 1035

Hab. in ligno decorticato Citri Aurantii, in frigidariis horti botanici patavini, rarius.

19. **Aposphæria stigmospora** Sacc. et Lamb. Misc. Mycol. p. 19. — Peritheciis subsuperficialibus, hinc inde dense gregariis, globosis, obtuse breve papillatis, atris, $^1/_4$ mill. diam.; sporulis copiosissimis, globosis, perexiguis 1-1,5 μ. diam., subhyalinis; basidiis acicularibus, 7-9 $\simeq$ 1,3, fasciculatis, hyalinis. 1036

Hab. in ramis corticatis emortuis Callunæ vulgaris, Verviers Belgii (Lambotte).

20. **Aposphæria fibrisequa** Sacc. *Aposphæria fibricola* Pass. et Beltr. F. Sic. n. 22, nec Berk. — Peritheciis superficialibus, pusillis, subglobosis, atris, in collum cylindricum iis subæquilongum vertice protractis; sporulis minutissimis, globosis. 1037

Hab. ad fibras ligneas denudatas Opuntiæ Ficus Indicæ, Licata Siciliæ.

21. **Aposphæria Artemisiæ** (Corda) Sacc. *Sphæronæma Artemisiæ* 1038
Corda Ic. IV. p. 39, f. 114. — Peritheciis gregariis, atris, subglobosis, glabris, subnitidis, superficialibus; ostiolo minuto, subacuto; globulo minuto albo; sporulis oblongis, utrinque obtusis, hyalinis, 3,5–4.

Hab. in radicibus caulibusque imis Artemisiæ Abrotani, p. Pragam Bohemiæ.

22. **Aposphæria densiuscula** Sacc. et Roum. Reliq. Libert. Ser. IV. 1039
n. 86. — Peritheciis dense gregariis, superficialibus, globosis, conicis variisve, atris, $^1/_4$ mill. diam.; sporulis ovoideo-oblongis, 5 ≃ 2, hyalinis; basidiis bacillaribus paulo brevioribus.

Hab. in trunco decorticato Brassicæ, in Germania et Gallia. — Diversa a *Ph. Lingam*, *oleracea* et *incrustante* quoque brassicicolis.

23. **Aposphæria librincola** (C. et H.) Sacc. *Phoma librincola* Cooke 1040
et Harkn. in Grevillea 1881, p. 82. — Exigua, gregaria, inter fibrillas nidulans; peritheciis globosis, numerosis, atris; sporulis ellipsoideis, continuis, hyalinis, 8–9 ≃ 4.

Hab. in libro Acaciæ, areas latas occupans et exasperans, in California Amer. bor.

24. **Aposphæria labens** Sacc. Mich. I. p. 125 (*Phoma*). — Perithe- 1041
ciis gregariis, superficialibus, $^1/_4$ mill. diam., globosis, vix papillatis, membranaceo-molliusculis, dein collabascendo excavatis, fuligineo-atris; sporulis cylindraceis, 4 ≃ 1, lenissime curvulis, hyalinis, basidiis filiformibus, fasciculatis sporulâ duplo longioribus, 8 ≃ 1, ex strato proligero celluloso fuligineo oriundis fultis.

Hab. in libro v. ligno Robiniæ Pseudacaciæ, Quercus etc., in Italia, Germania, Gallia. — *Phomæ seriatæ* (Pers.) affinis.

25. **Aposphæria fuscidula** Sacc. Mich. II. p. 271 (*Phoma*). — Peri- 1042
theciis ligno basi infossis gregariis, globoso-conoideis, papillulatis, atris; sporulis oblongis, utrinque obtuse rotundatis, 3–4 ≃ $1^1/_2$–2, 2-guttulatis, e hyalino flavidulis.

Hab. in ramis decorticatis Sambuci nigræ, Cadore Italiæ borealis. — Forte spermogonium *Melanommatis fusciduli* Sacc.

26. **Aposphæria fibriseda** (C. et Ellis) Sacc. *Phoma fibriseda* C. et 1043
Ellis in Grevillea. — Peritheciis gregariis, immersis; ostiolo breve emergente; sporulis *Phomæ* (Cooke).

Hab. in ramis decorticatis Rhois venenatæ, New Jersey Amer. bor. — Habitus totus *Sphæropsidis fibrisedæ* C. et E., sed sporulæ *Phomæ*.

27. **Aposphæria fusco-maculans** Sacc. Mich. II. p. 275 (*Phoma*). — Peritheciis late gregariis, ligno superficie infuscato, semi- v. fere totis immersis, $^1/_5$ mill. diam., globulosis v. subcompressis, nigris; ostiolo obsoleto; sporulis oblongis, utrinque rotundatis, $5 \simeq 1\text{–}1^1/_4$, dilutissime olivaceis, basidiis fasciculatis deorsum incrassatis, $8 \simeq 2$, hyalinis suffultis. 1044

Hab. in ligno decorticato Piri Mali, in Italia bor. — Affinis *Aposph. fuscidulæ* Sacc., a qua basidiis, matrice infuscata etc. satis recedere videtur.

28. **Aposphæria macrosperma** (Cooke et Harkn.) Sacc. *Sphæropsis macrosperma* Cooke et Harkn. in Grevillea n. 64. — Superficialis sparsa; peritheciis subglobosis, atris, punctiformibus, levibus, vix papillatis; sporulis magnis, ellipticis, utrinque rotundatis, hyalinis, $32\text{–}40 \simeq 12$, granulis repletis, episporio crasso. 1045

Hab. in cortice dejecto Eucalypti, in California.

29. **Aposphæria cava** Sacc. et Schulz. Micr. Slav. n. 50. Schulz. Ill. Fung. Slav. n. 103. — Peritheciis subsuperficialibus, globoso-depressis, vertice obtusissimo minute pertusis, atris, $^1/_8\text{–}^1/_6$ mill. diam., intus cavis; sporulis breve cylindraceis, utrinque truncatis, $3^1/_2$ μ. longis, hyalinis; basidiis bacillaribus, triplo longioribus, hyalinis. 1046

Hab. in ramis corticatis Cydoniæ vulgaris, pr. Vinkovce.

30. **Aposphæria Mori** (Mont.) Sacc. *Phoma Mori* Mont. Cent. VI. n. 88, in Ann., 3, XII. p. 306. Syll. n. 975. — Peritheciis dimidiatis, minutissimis, superficialibus, conico-hemisphæricis, apice poro pertusis, tandem circumscisso-deciduis; sporulis erectis brevibus sporas oblongo-fusiformes, 5–6 μ. longas sustinentibus. 1047

Hab. in ligno decorticato Mori albæ, Perpignan Galliæ.

31. **Aposphæria Prillieuxiana** Sacc. et Roum. Reliq. Lib. V. n. 84. — Peritheciis densissime gregariis, superficialibus, globoso-conicis, obtuse papillatis, majusculis, $^3/_4$ mill. diam., atris, subcarbonaceis; sporulis oblongis, utrinque rotundatis, $6 \simeq 2$, 5–3, medio rarius lenissime coarctatis, hyalinis; basidiis bacillaribus, subæquilongis, fasciculatis. 1048

Hab. in ligno putrescente Vitis, in Gallia et Germania.

32. **Aposphæria inconspicua** (Desm.) Sacc. *Sphæria inconspicua* Desm. Nouv. n. 1843, p. 20. — Peritheciis superficialibus, microscopicis, confertissimis, subglobosis, atris, levibus, nitidis, astomis, maculæ indeterminatæ fuligineæ insidentibus; sporulis minutissimis, 3–4 μ. longis, 2-guttatis. 1049

Hab. ad corticem truncorum Aceris platanoidis, in Gallia.

33. **Aposphæria inophila** (Berk.) Sacc. *Ph. inophila* Berk. Ann. N. 1050
Hist. n. 735. — Maculis indeterminatis, sericeo-nitidulis; peritheciis oblongis; sporulis oblongis, minutissimis, utrinque 1-guttulatis, 1.5-2 μ. longis, hyalinis.

Hab. in asseribus Aceris, in Britannia.

34. **Aposphæria seriata** (Pers.) Sacc. *Sphæria seriata* Pers. Ic. pict. 1051
t. 16, f. 2. — In seriem elongatam conferta, atra; peritheciis minutis, mollibus, rugulosis, orbiculatim depressis, papillatis; sporulis minutis, oblongis, hyalinis.

Hab. in ligno molli quercino, in Gallia, Suecia.

35. **Aposphæria Pulviscula** Sacc. Mich. I. p. 258 (*Phoma*). — Peri- 1052
theciis subsuperficialibus epixylis, gregariis, subglobosis, papillulatis, 100 μ. diam.; contextu minute parenchymatico fuligineo; sporulis oblongis, minutissimis, 4-4,5 ≃ 1,5-2, hyalinis, basidiis, 5-8 ≃ 2, sursum attenuatis suffultis.

Hab. in ligno udo et in cortice duriore salicino, in Italia et Gallia. — Probabiliter status *Melanommatis Pulvisculæ*. — *Aposphæriæ pineæ* Sacc. affinis.

36. **Aposphæria ulmicola** (Berk.) Sacc. *Phoma ulmicola* Berk. Ann. 1053
N. H. n. 737. — Peritheciis dense hinc inde gregariis, plagulasque oblongas minutas brunneas gignentibus; sporulis minutis, ellipsoideis, hyalinis, 2 μ. long., nucleis obsoletis.

Hab. in asseribus Ulmi, in Britannia.

37. **Aposphæria mucifera** (Berk.) Sacc. *Phoma mucifera* Berk. Ann. 1054
N. H. n. 736. — Peritheciis sparsis, oblongis; sporulis minutissimis, muco persistente involutis, oblongis, biguttulatis, hyalinis, demum cirrose expulsis.

Hab. in asseribus Ulmi, in Britannia.

38. **Aposphæria glomerata** (Corda) Sacc. *Coniothyrium glomeratum* 1055
Corda Ic. IV. f. 108. — Peritheciis in cæspitulos minutos nigros congregatis, superficialibus convexis, rugulosis, brunneis; sporulis oblongis, utrinque rotundatis, hyalinis, 5-6 μ. longis.

Hab. in asseribus lignisque Ulmi, etc. in Bohemia et Britannia.

39. **Aposphæria consors** Schulz. et Sacc. Micr. Slav. n. 52. Schulz. 1056
Ill. Fung. Slav. n. 841. — Peritheciis superficialibus, v. basi ligno infossis, globoso-depressis, minutis, 170 μ. diam., nigris, intus pallidis; sporulis ellipsoideis, hyalinis, 5-6 μ. longis; basidiis non visis.

Hab. in ramis decorticatis Ulmi suberosæ, socia *Eutypa polymorpha*, cujus forte spermogonium, pr. Vinkovce.

40. **Aposphæria minutula** (Peck.) Sacc. *Coniothyrium minutulum* Peck Bot. Gaz. 1880, p. 33. — Peritheciis minutis, sparsis, subglobosis v. depressis, atris, 150-160 μ. diam.; sporulis minutis, ovato-oblongis v. ellipsoideis, hyalinis, 3,5-4 ≃ 2. 1057

Hab. in ligni durioris superficie dealbata, Vermont Amer. bor. (Pringle). — Perithecii pars superior tandem decedit.

41. **Aposphæria fibricola** (Berk.) Sacc. *Phoma fibricola* Berk. Ann. N. H. n. 739. — Maculis indeterminatis; peritheciis sparsis v. hinc inde aggregatis, secundum fibras dispositis; sporulis ovoideis v. subellipsoideis, 6 μ. longis, chlorinis, enucleatis. 1058

Hab. in ligno Quercus, Fraxini, Ulmi, Populi, Cupressi, in Britannia, Belgio, America boreali. — Affinis *Coniothyrio*.

42. **Aposphæria collabens** (B. et C.) Sacc. *Sphæropsis collabens* B. et C. North Am. F. n. 419. — Peritheciis nudis, collabentibus, nitidis, nigerrimis; papilla centrali; sporulis allantoideis, hyalinis. 1059

Hab. in ramis decorticatis, New England Am. bor. (Murray). — Perithecia demum *Discosiam* fere æmulantia.

43. **Aposphæria oxystoma** Sacc. et Roum. Reliq. Lib. V. n. 85. — Peritheciis gregariis, subsuperficialibus, globoso-conicis, acute papillatis, atro-nitidulis, fere ½ mill. diam.; sporulis oblongo-teretiusculis, 3 ≃ 1, hyalinis; basidiis obsoletis. 1060

Hab. in fragmentis ligneis, in Gallia et Germania.

44. **Aposphæria arctica** (Karst.) Sacc. *Phoma arctica* Karst. Hedw. 1884, p. 19 (nec Berk.). — Peritheciis gregariis, erumpenti-superficialibus, rotundatis, ut plurimum subsphæroideis, astomis, atris, 4-5 μ. diam.; sporulis sphæroideis vel ovoideis, hyalinis, diam. 1,5 -3 vel 2-4 ≃ 1-2. 1061

Hab. ad lignum vetustum in insula Maris-glacialis, Kildin.

45. **Aposphæria Papillula** Sacc. et Roum. Reliq. Lib. V. n. 82. — Peritheciis gregariis, superficialibus subcarbonaceis, nigris, globosis, distincte papillatis, ⅓ mill. diam.; sporulis oblongo-teretiusculis, utrinque obtusiusculis, 6-8 ≃ 2; basidiis subnullis. 1062

Hab. in ligno putri, in Gallia et Germania.

46. **Aposphæria Petersii** (B. et C.) Sacc. *Phoma Petersii* B. et C. North Am. F. n. 377. — Erumpens, demum superficialis, hysteriiformis, in ligno dealbato sita; sporulis ellipticis, binucleatis, 7-8 μ. longis. 1063

Hab. in ligno aeri diu exposito dealbatoque, Alabama Amer. bor. — Ab *A. epileuca* sporulis duplo majoribus differt.

47. **Aposphæria umbonata** (Preuss) Sacc. *Phoma umbonata* Preuss 1064

F. Hoyersw. n. 279. — Peritheciis subconicis, papillatis, atris; nucleo pulposo albo; sporulis ovatis albis, in medio guttulam oleosam continentibus.

Hab. ad ligna exsiccata, Hoyerswerda.

48. **Aposphæria Pomi** Schulz. et Sacc. Microm. Slav. n. 51, Schulz. Ill. Fung. Slav. n. 146. — Peritheciis superficialibus dense gregariis, globoso-hemisphæricis, $^1/_{10}$-$^1/_6$ mill. diam., vertice obtusis, pertusis, basi hyphis fuligineis filiformibus, septatis cinctis; sporulis ovato-oblongis, 2 raro 1-3-guttatis, 6-8 ≃ 2-3, hyalinis; basidiis..... non visis. 1065

Hab. in epicarpio putrido Mali, Vinkovce.

49. **Aposphæria subtilis** (Corda) Sacc. *Coniothyrium subtile* Corda Ic. IV. p. 38, fig. 107. — Gregaria, minutissima, punctiformis; peritheciis convexis, rugulosis, atris, dein laciniato-ruptis; sporulis minutis ovoideis, hyalinis, 3-4 μ. longis. 1066

Hab. in ligno ramorum emortuorum arborum frondosarum, Reichenberg in Bohemia.

50. **Aposphæria Putaminum** (Speg.) Sacc. *Phoma Putaminum* Speg. Mich. II. p. 275. — Peritheciis globoso-difformibus, superficialibus, atris, carbonaceis, ostiolo difformi donatis, 150-180 μ. diam.; sporulis copiosis, e globoso ovoideis, non vel 1-guttulatis, chlorinis, $2^1/_2$-$3^1/_2$ ≃ $1^1/_2$-2. 1067

Hab. in parte interiore putaminum putrescentium Persicæ vulgaris, in hortis, Belluno Ital. bor.

51. **Aposphæria suberina** Sacc. Mich. II. p. 338 (*Phoma*). — Peritheciis gregariis subsuperficialibus, hemisphæricis, $^1/_6$ mill. diam., subinæqualibus, vix papillatis, nigris; sporulis oblongo-ellipsoideis, 5-6 ≃ 2, 2-guttulatis, hyalinis. 1068

Hab. In subere (ad usum obturaculi) udo putrescente, Lyon Galliæ (Therry).

52. **Aposphæria? schizothecioides** (Pr.) Sacc. *Sphærocista schizothecioides* Preuss Hoyersw. n. 34. — Peritheciis solitariis, atris, basi contractis, floccosis, tum tumido-conicis, dein apice scissis: nucleo mucoso; cirro longo filiformi; basidiis filiformibus; sporulis longis cylindricis, curvatis, albis. 1069

Hab. in ligno decorticato Callunæ vulgaris, Hoyerswerda. 1070

53. **Aposphæria subcrustacea** Karst. Symb. Myc. XV. p. 154. — Peritheciis superficialibus, confertissimis, ovoideis v. sphæroideo-ovoideis, vertice in ostiolum conoideum brevissimum attenuatis, nitidis,

levibus, glabris, 300 μ. diam.; sporulis fusoideo-oblongatis, vulgo rectis, 2-guttulatis, hyalinis, 6-7 ≃ 1,5-3.

Hab. in ligno Pruni Padi in Mustiala Fenniæ.

DENDROPHOMA Sacc. Mich. II. p. 4. (Etym. *dendron* arbor, et *Phoma*, ob basidia ramosa). — Perithecia subcutanea, raro superficialia (*Dendrophomella*), subglobosa, papillata, membranaceo-carbonacea, calva. Sporulæ oblongæ vel ovoideæ vel suballantoideæ, hyalinæ. Basidia verticillato- (raro simpliciter) ramosa, acicularia.

I. *Eu-Dendrophoma.*

Perithecia subcutanea.

1. **Dendrophoma orientalis** Sacc. et Penz. Mich. II. p. 619. — Perithecis laxe gregariis, globoso-depressis, $^1/_4$ mill. diam., pertusis, epidermide velatis; basidiis fasciculatis, sursum vage vel subverticillato-ramosis, 15-20 ≃ 1-1,5; sporulis cylindraceis, utrinque rotundatis, 3,5-4 ≃ 0,5-1, hyalinis, plerumque rectis. 1071

Hab. in ramulis Kerriæ japonicæ, Brionne Galliæ (Malbranche).

2. **Dendrophoma Sambuci** (B. et C.) Sacc. *Sphæronæma Sambuci* B. et C. North Amer. F. n. 408. — Peritheciis sparsis, erumpentibus, obtusis; sporulis minutis, oblongis, curvulis; basidiis ramosis. 1072

Hab. in ramis Sambuci, Maine Amer. bor. (J. Blake).

3. **Dendrophoma Rhododendri** (Roum.) Sacc. Mich. II. p. 336, *Cytispora Rhododendri* Roum. p. p. — Peritheciis gregariis, subcutaneis, intus albis, minutis, vix erumpentibus; sporulis perexiguis teretiusculis, 4 ≃ $^1/_2$, hyalinis, copiosissimis, basidiis bacillaribus, sæpe verticillato-ramulosis, 10-15 ≃ $^3/_4$, suffultis. 1073

Hab. in ramis Rhododendri pontici, socia *Diplodia*, Tarbes Galliæ.

4. **Dendrophoma pleurospora** Sacc. Mich. II. p. 362. — Peritheciis sparsis, globoso-conicis, pertusis, nucleo pallido, 140-200 μ. diam., contextu parenchymatico, pallide fuligineo; sporulis breve cylindraceis, 4-4$^1/_2$ ≃ 1-1$^1/_2$, ad latera et apicem basidiorum bacillarium, 30-50 ≃ 2$^1/_2$-3$^1/_2$, rectorum sessiliter adnatis, obliquis. 1074

Hab. in ramis corticatis variis, in Italia et Gallia. — Adsunt plures formæ: **laurina**: basid. 30-40 ≃ 3; sporul. 4 ≃ 1$^1/_2$. In foliis Lauri nobilis. — **ribesia**: basid. 50 ≃ 3-3$^1/_2$; sporul. 4 ≃ 1. In ramis Ribis rubri. — **vitigena**: basid. 30-40 ≃ 2; sporul. 4-5 ≃ 1$^1/_2$-2; perith. nucleo griseo. In sarmentis Vitis æstivalis.

— **quercina**: basid. 60 ≃ 3; sporul. 5 ≃ $1^3/_4$. In ramis quercinis.
— **Rosiflorarum**: basid. 50-55 ≃ 3; sporul. 4 ≃ $^3/_4$. In ramis Rosæ et Pruni.

5. **Dendrophoma valsispora** Penz. Mich. II. pag. 433. — Peritheciis 1075
sparsis in aridis foliorum maculis, globosis, epidermide tectis, 250-280 μ. d., ostiolo prominente, contextu parenchymatico, atro-brunneo; sporulis cylindricis, curvulis, utrinque rotundatis, minimis, 3-3,5 ≃ 0,5-1, hyalinis; basidiis fasciculatis, verticillatim ramosis, hyalinis, 15-18 ≃ 1-1,5.

Hab. in foliis vivis Citri Limonum in frigidariis R. Horti Botanici Patavini. — Var. **ramulicola** Sacc. Reliq. Lib. V. n. 88. In ramulis salicinis in Gallia.

6. **Dendrophoma aspera** (Lév.) Sacc. *Sphæropsis aspera* Lév. Ann. 1076
Sc. Nat. 1846, p. 295. — Peritheciis minutissimis, gregariis, adnatis, globosis, nigris, ostiolis nullis; sporulis ovato-elongatis pellucidis, utrinque obtusis; basidiis ramosis.

Hab. ad ramos Cerasi Padi prope Lyon Galliæ (De Tim-MEROY).

7. **Dendrophoma pruinosa** (Fr.) Sacc. *Sphæria pruinosa* Fr. S. M. 1077
II. p. 486, *Cytispora* (Phoma?) *pruinosa* Sacc. Mich. I. p. 519. — Gregaria; peritheciis tectis, depressis, epidermide adnatis, griseo-pruinosis, ostiolis bullato-erumpentibus; sporulis allantoideis, 5-7 ≃ 0,5-1, e hyalino luteolis; basidiis verticillato-ramosis, sporulâ 4-5-plo longioribus.

Hab. in ramis corticatis Fraxini in Italia, Suecia, Gallia, Germania, Britannia, Am. bor. — β. **Lantanæ** Sacc. Mich. I. p. 519: peritheciis globosis, nigro-farctis ostiolo subprominulo, nigro, albido-pruinoso-anulato; sporulis 5 ≃ 1. In ramulis Viburni Lantanæ, in Gallia.

8. **Dendrophoma alba** (Pr.) Sacc. *Sphærocista alba* Preuss Fungi 1078
Hoyersw. n. 307. — Cortici insidens; peritheciis coriaceo-corneis, subglobosis, pertusis, cum villo substrigoso subiculari corticem penetrante, nucleo albido; basidiis longis, furcatis; sporulis oblongo-cylindricis, utrinque obtusis, albis.

Hab. in cortice Fraxini pendulæ, Hoyerswerda.

9. **Dendrophoma myriadea** (Pr.) Sacc. *Phoma myriadea* (Pr.) Sacc. 1079
Sphærocista myriadea Preuss F. Hoyersw. n. 41. — Gregaria; peritheciis innato-prominulis applanatis, minimis, astomis, nigris, in macula inæquali insidentibus; basidiis longis, simplicibus, dichotomis; sporulis elongatis, continuis, albis.

Hab. ad folia Quercus, Hoyerswerda.

10. **Dendrophoma crassicollis** Schulz. et Sacc. Microm. Slav. n. 34, 1080
Schulz. Ill. Fung. Slav. n. 842. — Peritheciis laxe gregariis, globoso-depressis, $^1/_2$ mill. crass., peridermo tectis, intus pallidis, ostiolo conico, obtuso vix erumpente; sporulis suballantoideis, hyalinis, 5–6 ≃ 2, hyalinis; basidiis sporulâ triplo longioribus, filiformibus, furcatis ramosisve.

Hab. in ramis corticatis Fraxini excelsioris prope Vinkovce. — Videretur *Cytospora* simplex.

11. **Dendrophoma merizophila** (Pr.) Sacc. *Sphærocista merizophila* 1081
Preuss F. Hoyersw. n. 40. — Erumpens, gregaria, simplex; peritheciis rotundato-lentiformibus, atris, perforatis; pulpa sporulosa per ostiolum in persico-rubrum globulum expulsa; basidiis longis, continuis, ramiformibus divisis; sporulis minutis, cylindricis, subcurvatis, continuis, albis.

Hab. in ramulis arborum frondosarum dejectis, Hoyerswerda.

II. *Dendrophomella.*

Perithecia superficialia (cfr. *Aposphæria*).

12. **Dendrophoma cytosporoides** Sacc. Mich. II. p. 273. — Peritheciis 1082
sparsis vel hinc inde subaggregatis, globoso-conoideis, superficialibus, nigris; contextu anguste prosenchymatico; sporulis botuliformibus, 5-6 ≃ 1-1$^1/_2$, hyalinis, basidiis fasciculatis, verticillato-ramosis, acicularibus, 3-4-plo longioribus suffultis.

Hab. in ramis decorticatis Deutziæ scabræ, Saintes (Brunaud), et Ulmi, Rouen Galliæ (Letendre), ubi perithecia denique cupulato-collapsa videntur. — ***punicina** Sacc.: peritheciis initio subcutaneis, denique erumpentibus, papillatis; sporulis allantoideis, 4 ≃ 1$^1/_4$, 2-guttulatis, hyalinis, basidiis simpliciter verticillatis, deorsum attenuatis, 10 ≃ 2, suffultis. — In ramis corticatis Punicæ Granati, Padova.

13. **Dendrophoma Therryana** Sacc. et Roum. Mich. II. pag. 336. — 1083
Peritheciis superficialibus vel erumpenti-superficialibus, gregariis vel hinc inde subaggregatis, globoso-inæqualibus, atris, $^1/_4$-$^1/_3$ mill. diam., vix papillatis; sporulis ovoideis, 3 ≃ 1, basidiis verticillato-ramosis, acicularibus, 25 ≃ 1, suffultis.

Hab. in cortice Platani (?) in horto botanico Lyon Galliæ (Therry), in ligno quercino et populino in Arduennis (Libert). — Forma **Castaneæ** Sacc. l. c.: sporulis 3 ≃ 1; basidiis 15-20 ≃ 1,

peritheciis subsuperficialibus. In trunco Castaneæ, Conegliano Italiæ bor.

14. **Dendrophoma Pulvis-pyrius** Sacc. F. V. N. Ser. III. sub n. 18. 1084
— Peritheciis globulosis, subdepressis, exiguis vix papillatis, subirregularibus; sporulis minimis, cylindraceis, 3–4 ≃ 0,7, hyalinis; basidiis semel vel bis verticillato-ramulosis, 18–25 ≃ 1.

Hab. in lignis corticibusque crassioribus Piri, Alni, Carpini, Quercus, Robiniæ in Italia et Gallia.

15. **Dendrophoma populina** Schulz. et Sacc. Micr. Slav. n. 37, Ill. Fung. 1085
Slav. n. 8. — Peritheciis gregariis, tenue membranaceis, globoso-depressis, lignicolis, crustula stromatica atra basi infossis; basidiis dichotomo-ramosis, denticulatis, hyalinis; sporulis cylindraceis, utrinque obtusis, rectiusculis, acro-pleurogenis, basidio 5–6-plo brevioribus, hyalinis.

Hab. in ramis decorticatis populinis, Eperjes Slavoniæ.

16. **Dendrophoma lignorum** Schulz. et Sacc. Micr. Slav. n. 35, Schulz. 1086
Ill. Fung. Slav. n. 620. — Peritheciis gregariis, minutis, superficialibus, globosis, vertice acutiuscule papillatis, 0,16 ≃ 0,20 mill. d., atris; sporulis teretiusculis, utrinque obtusis, hyalinis, 4 μ. long., basidiis filiformibus, ramosis suffultis.

Hab. in ligno Populi albæ superficie dealbato, prope Vinkovce Slavoniæ.

17. **Dendrophoma juglandina** Schulz. et Sacc. Micr. Slav. n. 36, Schulz. 1087
Ill. Fung. Slav. n. 162. — Peritheciis subsuperficialibus, gregariis, globoso-conicis, $^1/_3$ mill. diam., obtuse papillatis, nigris, intus albidis; sporulis oblongis, utrinque rotundatis, 4 μ. long., hyalinis; basidiis repetito-dichotome ramosis, sporulâ 8-plo longioribus, hyalinis.

Hab. in ligno emortuo Juglandis prope Vinkovce Slavoniæ.

18. **Dendrophoma australasica** Speg. F. Argent. Pug. III. n. 101. — 1088
Peritheciis subsuperficialibus, densiuscule sparsis, globosis, atro-fuscescentibus, minutis, $^1/_4$–$^1/_3$ mill. d., in sicco umbilicato-corrugatis, duriusculis, carnoso-membranaceis, contextu densissime parenchymatico, fuligineo; basidiis filiformibus, hyalinis, verticillatim ramulosis, 20–40 ≃ $^1/_2$–1; sporulis ellipticis v. cymbiformibus, utrinque acutiusculis, hyalinis, simplicibus, 6–8 ≃ 1–1$^1/_2$.

Hab. ad folia dejecta putrescentia Eucalypti Globuli en el Parque de Palermo Argentinæ in Amer. austr.

19. **Dendrophoma hormococcoides** Sacc. et Penz. Mich. II. p. 619. 1089
— Peritheciis sparsis, globulosis, subsuperficialibus, $^1/_4$–$^3/_4$ mill. d.,

atris; contextu prosenchymatico sursum evanescente, ostiolumque amplum limitante; basidiis prælongis dense fasciculatis, 70-100 ≃ 0,5-1, pluries stricte furcatis, apice truncatis, hyalinis; sporulis acrogenis teretiusculis, utrinque rotundatis v. subtruncatis, rectiusculis, 3,6-4 ≃ 1, eguttatis, hyalinis.

Hab. in culmo inundato Phragmitis sub cortice et in pariete interiore, Lyon Galliæ (Therry). — Ad *Hormococcum* vere nutat.

20. **Dendrophoma eumorpha** Sacc. et Penz. Mich. II. p. 619. — Peritheciis subsuperficialibus, globosis, papillatis, dein collabascendo umbilicatis, nigris, nitidulis, ½ mill. diam., membranaceo-carbonaceis; sporulis teretiusculis, subrectis, perexiguis, 2,5-3 ≃ 0,5-0,7; basidiis vage ramulosis denticulatisque filiformibus, septulatis, sporulâ multoties longioribus. 1090

Hab. in parte interiore corticis Pinorum, Le Sapey (Isère) Galliæ (Therry).

21. **Dendrophoma microsperma** (Pr.) Sacc. *Sphærocista microsperma* Preuss F. Hoyersw. n. 309. — Peritheciis arachnoideis, albis, supra calvis, atris, conicis, papillatis, obtusis, corneis; basidiis ramosis, longissimis, filiformibus, continuis, albis; sporulis minutis, ovatis, albis; episporio nullo. 1091

Hab. ad ramos decorticatos, Hoyerswerda.

22. **Dendrophoma hydrophila** Karst. Hedw. 1883, p. 180. — Peritheciis sparsis vel laxe gregariis semi-immersis elongatis, hysterioideis vel rotundatis, glabris, atris, majusculis; sporulis ovoideis, 1-2-guttulatis, hyalinis, 20-25 ≃ 10-14, siccis ovoideo-rotundatis, vel subsphæroideis, 12-18 ≃ 12; basidiis crassiusculis («ramosis?»). 1092

Hab. ad ligna parietina sæpe irrorata in Fennia australi. — — «An potius *Aposphæria?*».

ASTEROMELLA Pass. et Thüm. in M. U. n. 1689. (Etym. ab *Asteromate*, cujus habitum præbet). — Perithecia globulosa, minuta, sæpius phyllogena, in maculas asteromatoideas atras dense disposita. Sporulæ ovoideæ v. subcylindricæ, hyalinæ, continuæ. — Habitus *Asteromatis*, sed fibrillæ genuinæ nullæ.

1. **Asteromella ovata** Thüm. in M. U. n. 1689. — Peritheciis numerosis, maculam obscuram efficientibus, dense gregariis, hypophyllis, globosis, emersis, atris; sporulis numerosissimis, ovoideis, utrinque rotundatis vel subtruncatulis, rectis, simplicibus, hyalinis, 2,5-3 ≃ 1,5-2. 1093

Hab. ad folia emortua prostrata Aceris Pseudoplatani, Klosterneuburg Austriæ.

2. **Asteromella bacillaris** Pass. et Beltr. F. Sic. n. 24. — Peritheciis superficialibus granuliformibus, sparse vel laxe gregariis, præsertim secus nervos et venas; sporulis minutissimis, bacillaribus, tranquillis, hyalinis, $2^1/_2$-$3 \simeq {}^3/_4$-1. 1094

Hab. ad folia arida dejecta Mori nigræ, Licata Siciliæ.

PIPTOSTOMUM Lév. Ann. Sc. Nat. 1846, p. 65. (Etym. *pipto*, cado et *stoma*), *Piptostroma* Fr. Summa Veg. Scand. p. 409, non *Piptostoma* B. et Br. F. of Ceyl. n. 1135, quia ascigerum. — Perithecia carbonacea rigida, globosa, demum circumscissa parteque superiore decedente, nucleo celluloso-lobato. Sporulæ continuæ ellipsoideæ, hyalinæ, pedicellis suffultæ, (ascis nullis). — *Cytosporæ* analogum genus videtur.

1. **Piptostomum domingense** Lév. l. c. — Erumpens, gregarium; peritheciis subglobosis, 1-2 mill. diam., rugosis, nigris, demum late apertis, nucleo albo lobato; sporulis ovato-ellipsoideis, continuis, hyalinis, pedicellatis. 1095

Hab. ad cortices in Hispaniola seu S. Domingo.

CROCICREAS Fr. Summa Veg. p. 418. (Etym. *crocis* floccus et *creas* caro, ob naturam perithecii). — Perithecia libera, turbinata, carnoso-cornea, extus intusque floccoso-fibrosa, ore umbilicata. Sporulæ oblongæ v. cylindraceæ, hyalinæ. Basidia ramosa filiformia.

1. **Crocicreas gramineum** Fr. Summa p. 418, *Perisporium gramineum* Fr. S. M. III. p. 249. — Adnatum, turbinatum, demum umbilicato-pertusum, opacum, e testaceo nigrum, basi floccis radiatis præditum; sporulis in basidiorum ramosorum apicibus cylindraceis, rectis, continuis, hyalinis, $12 \simeq 2$. 1096

Hab. ad folia emarcida Holci aliorumque Graminum in Suecia, Germania. — Omnino superficiale, sed firmiter adnatum, rigidum, ut folium, cui innascitur, tactu exasperet. Reliquis melius evolutum, licet puncto non majus sit, frequenter sparsum, nulla macula cinctum, demum evidenter pertusum. Colores e flavescente fuscoque nigrescentes.

2. **Crocicreas giganteum** Mont. Fl. Chil. VII. p. 844, t. 9, f. 7, Syll. n. 957. — Peritheciis gregariis, liberis, corneis, turbinatis, atris, apice umbilicatis, tandem late apertis, disco albo farinoso; sporulis globosis pedicellatis. 1097

Hab. ad ramos arborum in Chile (Gay).

3. **Crocicreas corticolum** Bon. Abhandl. p. 139. — Peritheciis glo- 1098
bosis, adnatis, rugulosis, basi pilis hyalinis, albidis vestitis; ostiolo late aperto; sporulis hyalinis, oblongis; basidiis simplicibus lanceolatis.

Hab. in ramis siccis dejectis in Guestphalia Germaniæ. — « Dubia species ».

PYRENOTRICHUM Mont. Syll. p. 267, Ann. Sc. Nat. 1843, XX. p. 376. (Etym. *pyrenium* seu perithecium et *thrix*, floccus seu basidium). — Perithecia membranacea, subsphærica cupulari-depressa, sessilia atra, demum circumscissa. Nucleus gelatinosus, e floccis myriadeis subcontinuis (cincinnatis) acrosporis compositus. Sporulæ oblongæ, continuæ, hyalinæ.

1. **Pyrenotrichum Splitgerberi** Mont. Ann. Sc. Nat. l. c. p. 377, t. 16, 1099
f. 2. — Characteres iidem ac generis. Perithecium semen sinapeos æquans. Sporulæ 5 ≈ 2.

Hab. ad crustam Lichenum parasitans, in cortice *Cerberæ Thevetiæ* in Surinam (Splitgerber).

SCLEROTIOPSIS Speg. F. Arg. Pug. IV. n. 282 (Etym. a *Sclerotio*, quod mentitur). — Perithecia tecta, immersa, parenchymati innata, amphigena, carnosulo-membranacea, majuscula, astoma. Sporulæ ellipticæ, utrinque lateraliter acutato-angulatæ, in basidiis filiformibus, monospermis acrogenæ.

1. **Sclerotiopsis australasica** Speg. Arg. Pug. IV. n. 282. — Peri- 1100
theciis parenchymati immersis, epidermide tectis, amphigenis, irregulariter lenticularibus, majusculis, 0,5–1,5 mill. diam., astomis, crassiuscule membranaceis, contextu indistincte parenchymatico, olivaceo; basidiis e strato proligero oriundis, dense constipatis, filiformibus, simplicibus, 25 ≈ 1, monosporis, hyalinis; sporulis cylindraceo-subnavicularibus, 7–8 ≈ 1,5–2, utrinque lateraliter acutato-angulatis (*Vermicularicæ* more), hyalinis, acrogenis.

Hab. in foliis dejectis putrescentibus Eucalypti Globuli, Parque de Palermo Argentinæ. — Species primo intuitu *Sclerotii* innati speciem quamdam in mentem revocat.

PLENODOMUS Preuss F. Hoyersw. n. 150 et in Sturm Pilz. III. t. 72 (Etym. *plenus* et *domus*, quia perithecia farcta). — Perithecia immersa cornea, intus carnosa, primum clausa (dein irregulariter

rupta vel secedentia), rotundata multiformia. Basidia flocciformia brevissima. Sporulæ continuæ, oblongæ, hyalinæ.

1. **Plenodomus Rabenhorstii** Preuss l. c. — Peritheciis gregariis erum- 1101
pentibus, oblongis, ellipticis, irregulariter plicatis, tuberculatis polymorphisque, opacis nigris, contextu cellulosis, primum clausis dein ostiolatis, intus carnoso-cellulosis, albis; caverna sporarum semicirculiformi; basidiis minutissimis; sporulis minutis oblongis, pellucidis, albis, utrinque rotundatis.

Hab. in truncorum epidermide Brassicæ crispæ dejectorum, Hoyerswerda. — Habitus *Sclerotii*.

MYCOGALA Rost. in Cooke Myxom. p. 84 (nomen). (Etym. *myces* fungus et *gala* lac.). — Perithecia subsuperficialia subcarbonacea, fragilia, astoma, mox inordinate dehiscentia, nucleo pallescente. Sporulæ globulosæ, continuæ, hyalino-flavæ, basidiis nullis vel obsoletis. — Genus habitu *Anixiæ*, ad interim hic locatum, sed maxime desciscens. Contextus perithecii distincte parenchymaticus; ergo a Myxomycetibus, quibus fungillus referri solebat, abhorrens.

1. **Mycogala parietinum** (Schrad.) Sacc. *M. bicolor* (Pers.) Rost. l. c. 1102
Lycogala parietinum Fr. S. M. III. p. 83, *Didymium parietinum* Schrad. — Peritheciis hemisphæricis, superficialibus, cœrulescenti-nigris subpunctatis, mox inordinate dehiscentibus, contextu parenchymatico fuligineo, nucleo pallide flavo, demum pulveraceo; sporulis globulosis, 10–12 μ. diam., pallide flavis, coacervatis sulfureis, extus rugulosis.

Hab. in lignis, tela, parietibus in Gallia, Germania, Lapponia, Italia.

SPHÆRONÆMA Fr. S. M. II. pag. 535. (Etym. a *sphæra* et *nema* fluxio, ob sporulas sæpe fluendo in globulum terminalem conglutinatas). — Perithecia membranacea, coriacea vel carbonacea, innata vel superficialia, globulosa in ostiolum plus vel minus subulatum producta. Sporulæ ovoideæ vel oblongæ, continuæ, subhyalinæ sæpe, madore, ad ostioli verticem expulsæ globulumque formantes. — Formatio globuli sporularum nil peculiaris est, nam in multis aliis occurrit; hinc mihi nota generis est rostrum nec globulus. Species erostres etsi globuligeras auctorum ad *Aposphæriam* vel *Phomam* duco.

I. *Eu-Sphæronæma*. Sporulæ subhyalinæ.

A) In Dicotyledoneis lignosis.

1. **Sphæronæma polymorphum** Auersw. Bot. Zeit. 1851, p. 181. — Pe- 1103

ritheciis variis cylindricis vel e basi hemisphærica vel subglobosa cylindricis, vel subconicis vel obconicis, globulo livido-nigrescente coronatis; sporulis oblongo-cylindraceis, minutissimis, rectis, hyalinis, 6 ≃ 1,5; basidiis bacillaribus subinde furcatis, 18–20 ≃ 1,5.

Hab. in truncis Pruni, Padi, in Germania, Gallia et Italia. — Forma obconica sistit forte *Sph. pistillare* Wallr. Secundum Fuck. est spermogonium *Cenangii vernicosi*. — ***Sph. affine** Sacc.: peritheciis conoideo-elongatis, apice obtusiusculis, coriaceis, gregariis; sporulis allantoideis minutis, 6 ≃ $^3/_4$–1, hyalinis; basidiis bacillaribus triplo longioribus. In ramis corticatis Populi tremulæ vel Betulæ, Cadore Italiæ bor.

2. **Sphæronæma minutissimum** Peck 25 Rep. p. 85. — Peritheciis sparsis, minutis, sphæriæformibus vel subconicis, obtusis, a matrice facile secedentibus, nigris; globulo albido; sporulis oblongis, continuis, hyalinis, 7 μ. longis. 1104

Hab. in ramis Pruni serotinæ, Helderberg Amer. bor. — Perithecia prominula matricem asperulam reddunt.

3. **Sphæronæma brunneo-viride** Auersw. in Herb. — Peritheciis gregariis e basi cortice insculpta superficialibus, elongato-conicis, atro-virentibus, coriaceis, apice obtusiusculis; sporulis subfusoideis, leniter curvis, 18 ≃ 3, hyalinis; basidiis filiformibus, subinde furcatis, hyalinis, 25–30 ≃ 1,5. 1105

Hab. in ramis corticatis Pruni Padi in Germania. — Sec. Fuck. Symb. Myc. p. 269 sistit spermogonium *Cenangii Cerasi* β. *Padi* A. S.

4. **Sphæronæma spurium** (Fr.) Sacc. *Ceratostomum spurium* Fr. Obs. II. p. 338, teste Fuck. — Peritheciis spuriis erumpentibus, 3 mill. altis, conico-cylindraceis, fragilissimis, pulverulentis, atro-fuscis; globulo griseo, minuto, terminali; sporulis lineari-fusoideis, curvulis, hyalinis. 1106

Hab. in ramis corticatis Pruni spinosæ prope Œstrich Germaniæ. — Pycnidium *Cenangii Prunastri* Fr., teste Tul.

5. **Sphæronæma Sorbi** Sacc. *Dothiorœ Sorbi* pycnidium Fuck. Symb. p. 275. — Peritheciis spuriis sparsis subcæspitosisve, sub epidermide flavicante nidulantibus, globosis, atris, media magnitudine in rostrum conicum, obtusum, prominulum, aterrimum, perithecium æquans attenuatis; sporulis anguste fusiformibus, curvatis, continuis, 14–18 ≃ 2–3, guttulatis, hyalinis. 1107

Hab. in ramis corticatis Sorbi Ariæ in Rhenogovia.

6. **Sphæronæma pallidum** Peck 25 Rep. p. 85. — Peritheciis sparsis, 1108

erumpentibus, subconicis, obtusis, epidermide rupta cinctis, nigris, globulo pallido vel albido persistente coronatis; sporulis fusoideis, leniter curvis, utrinque acutis, plerumque 2-3-nucleatis, 15-16 μ. longis.

Hab. in ramis Piri Americanæ, Sandlake Amer. bor.

7. **Sphæronæma conforme** Peck Rep. St. Mus. N. Y. — Peritheciis 1109
sparsis, erumpentibus, in ostiolum rigidum spiniforme nigrum desinentibus; globulo albido; sporulis subfusoideis, sæpe curvulis sæpeque 1-2-nucleatis, 15-20 μ. longis.

Hab. in ramis emortuis Piri, Center Amer. bor. — Habitus *Sph. Spinæ* et *Sph. Magnoliæ*, at sporulæ diversæ.

8. **Sphæronæma Cerasi** Lasch Bot. Zeit. 1851, p. 181. — Peritheciis 1110
breve cylindricis, nigris; globulo fusco-olivaceo; sporulis oblongis.

Hab. in ramis Pruni Cerasi in Germania. — A *Sph. piriformi* valde diversum dicitur.

9. **Sphæronæma Eucalypti** Cooke et Harkn. in Grevill. 1881, p. 127. 1111
— Peritheciis sparsis, erumpentibus, conicis, atris; sporulis minoribus, subcylindricis, leniter curvulis, hyalinis, utrinque obtusis, 8 ≃ 2.

Hab. in cortice Eucalypti in California.

10. **Sphæronæma nitidum** B. et C. North Amer. Fungi n. 406. — 1112
Peritheciis erumpentibus, subinde zonula atra cinctis, conicis truncatis; sporulis oblongis vel clavatis, hic illic uno apice attenuatis, binucleatis, 10 μ. longis.

Hab. in ramis Aceris Negundinis in Carolina Amer. bor.

11. **Sphæronæma cæspitosum** Fuck. Symb. p. mmm. — Peritheciis 1113
cæspitosis, cylindraceis, vel apicem versus angustatis elongatisve, 1-2 lineas altis, fuscis; globulo terminali atro-fusco; sporulis numerosissimis, globosis ovatisve, pallide flavis, circa 3 μ. diam.

Hab. in ramis putrescentibus Aceris platanoidis, sæpius in Eutypa parasiticum, Reichartshausen Rhenogoviæ.

12. **Sphæronæma acerinum** Peck 24 Rep. St. Mus. New York., *Sph.* 1114
nigripes Ell. in Torr. Bot. Cl. 1876, p. 107. — Peritheciis cortice innatis, peridermium perforantibus, inferne conico-hemisphæricis, sursum in rostellum longum, angustum, flexuosum v. curvum attenuatis, nigris v. brunneo-atris; globulo minuto hyalino; sporulis ellipsoideis, sæpe 1-2-guttatis, hyalinis, 15-20 ≃ 4,5.

Hab. in trunco ramisque Aceris rubri, South Jersey, Greenbush, Sandlake, Indian Lake Amer. bor.

13. **Sphæronæma columnare** Wallr. Fl. crypt. n. 3684. — Peritheciis 1115

fasciculatis, subconfluentibus, nigris, incusis, strictis, speciosis, e basi æquali cylindrica in verticem obtusum umbonatum veluti operculatum nitidum, poro tenuissimo pertusum productis.

Hab. ad truncos fraxineos cæsos in Thuringia.

14. **Sphæronæma Oleæ** (De Not.) Sacc. *Spilobolus Oleæ* De Not. Micr. ital. Dec. VII, f. 10. — Peritheciis depresso-globulosis, erumpentibus in collum crassum subæquilongum, apice rotundatum, abrupte productis, atronitidis; contextu subcorneo parenchymatico; sporulis cylindraceis, curvulis, 6-8 ≃ 2, subhyalinis; basidiis filiformibus, simplicibus furcatisve, hyalinis, sporulâ sub-triplo longioribus. 1116

Hab. in ramis corticatis Oleæ europææ. — Forma **xylogena** Sacc. F. Ven. Ser. IV. sub n. 57: sporulis 4-6 ≃ 2, dilute olivaceo-fuscellis; basidiis subsimplicibus, sporulâ duplo longioribus. In ligno Oleæ europææ in Euganeis. Hæc forma videtur spermogonium *Cyphelii ochreati* Mass.

15. **Sphæronæma Spina** B. et Rav. North Amer. Fungi n. 103, *Sphæron. acuminatum* B. et R., *Sphæron. spiniforme* B. et C. — Peritheciis erumpentibus, spiniformibus, nigris, corticatis; sporulis minimis globosis. 1117

Hab. in foliis emortuis Fraxini in Carolina infer., Alabama Amer. bor. — *Sphæria Spina* Schw., quam huc ducit cel. Berk., videtur diversa. Cfr. Syll. I. p. 220.

16. **Sphæronæma Ampelopsidis** B. et C. North Amer. Fungi n. 403. — Gregarium, nigrum, dein deciduum; ostiolo tenui erumpente; sporulis oblongis, hyalinis, minutis, basidio subæquilongo suffultis. 1118

Hab. in ramis Ampelopsidis quinquefoliæ in montibus Virginiæ Amer. bor.

17. **Sphæronæma viticolum** B. et C. North Amer. Fungi n. 407. — Peritheciis gregariis, quandoque congestis, erumpentibus, conicis, late truncatis, pulverulentis; parietibus crassis. 1119

Hab. in sarmentis Vitis in Carolina inferiore Amer. bor. — Affine *Sphæronæmati glomerato.*

18. **Sphæronæma metulæforme** Berk. North Amer. Fungi n. 400. — Peritheciis fuscis metulæformibus, basi subcontractis, collo breviore, apice penicillato albo, setulis articulatis; sporulis 1120

Hab. in ramis Corni floridæ, socia *Perichæna populina*, in Carol. inf. Am. bor. – Ostiolum duas tertias perithecii partes æquans.

19. **Sphæronæma pruinosum** B. et C. North Amer. Fungi n. 402. — Erumpens, cylindricum, apice globosum e conidiis minutis basi acutis pruinosum; sporulis oblongis, hyalinis, 17–25 μ. longis. 1121

Hab. in ramis corticatis Rhois venenatæ, in Pensylvania Amer. bor. — *Sphæron. pruinosum* Peck in Rep. St. Mus., in ramis Amelanchieris canadensis, Garrison Amer. bor., non videtur diversum, saltem ex descriptione.

20. **Sphæronæma Rhois** B. et C. North Amer. Fungi n. 404. — Peritheciis sparsis vel congestis minoribus, subcylindricis, erumpentibus; sporulis 1122

Hab. in ramis Rhois copallinæ in Carolina inf. Am. bor.

21. **Sphæronæma Catalpæ** Schw. Syn. Amer. bor. n. 2142. — Peritheciis subcylindricis, gracilibus, basi bulboso-incrassata, nigris; globulo spermatico deciduo albo, relinquente foveolam excavatam albam in ore perithecii. 1123

Hab. in aversa pagina decedentis corticis Cátalpæ ex libro pullulans, Bethlehem Amer. bor.

22. **Sphæronæma clavatum** Lév. Ann. Sc. Nat. 1846, p. 280. — Peritheciis cæspitosis, globosis, atris, ostiolis elongatis, levibus, clavatis, apice obtuso pertusis; sporulis elliptico-linearibus, continuis, pellucidis. 1124

Hab. ad ramos, folia et etiam gallas Drymidis chilensis in Chili (Gay). — Perithecia usque 2–3 mill. alta.

23. **Sphæronæma clethrincolum** Ellis Torr. Cl. 1876, p. 107. — Peritheciis erumpentibus, sparsis, obtuse conicis vel demum cylindricis, basi incrassatis; globulo albo, dein rufescente; sporulis oblongis, hyalinis, minutis, 4–5 μ. longis. 1125

Hab. in ramis emortuis Clethræ alnifoliæ, South Jersey Amer. bor. — Non confundendum cum *Sph. Magnoliæ* et *Sph. minutissimo.*

24. **Sphæronæma cæspitosum** Peck 25 Rep. p. 85. — Peritheciis cæspitosis, cylindraceis vel sursum leniter tenuatis, nigris; globulo nigro, nitido; sporulis subfusoideis, 11–12 μ. longis. 1126

Hab. in ramis emortuis Ilicis verticillatæ, Sandlake et Center Amer. bor.

25. **Sphæronæma Fuckelianum** Sacc. *Dothioræ sphærioidis* pycnidium Fuck. Symb. p. 274. — Peritheciis spuriis superficialibus, gregariis, minutissimis, 240 ≃ 128, in rostrum cylindraceo-conicum, 160 ≃ 60, attenuatis, quandoque rostro abrupto, aterrimis; sporulis in rostri apicem demum expulsis, cylindraceis curvatis, utrinque obtusis, continuis, 6 ≃ 1,5. 1127

Hab. in cortice duriore ramorum Populi tremulæ emortuorum prope Œstrich Rhenogoviæ.

26. **Sphæronæma subpilosum** Sacc. *Ceratostomatis subpilosi* Spermogonium Fuck. Symb. pag. 128. — Peritheciis sparsis gregariisque subsuperficialibus, media magnitudine, carbonaceis, aterrimis, globosis, rostro gracili, plerumque abrupte cylindraceo perithecium æquante, ostiolo perforato, plerumque subtiliter bilabiato obtusove; sporulis ovoideis, biguttulatis, hyalinis, episporio crasso, 8 ≃ 4. 1128

Hab. in ligno putri Salicis albæ in Rhenogovia.

27. **Sphæronæma procumbens** Sacc., *Ceratostomatis procumbentis* Spermog. Fuck. Symb. p. 128, t. IV. f. 45. — Peritheciis gregariis, superficialibus, longissime rostratis, obverse piriformibus, plerumque procumbentibus rostro adscendente, vel verticalibus rostro recto, levibus, atro-fuscis; sporulis cylindraceis, curvulis, minutissimis, in globulum apicalem expulsis. 1129

Hab. in ligno duriore Quercus, rarius in Rhenogovia.

28. **Sphæronæma cylindricum** (Tode) Fr. S. M. II. p. 538, *Sphæria cylindrica* Tode Meckl. II. p. 4, f. 114. — Peritheciis cylindricis, simplicibus, gracilibus, levibus, nigris, globulo prominulo albo; sporulis perexiguis, 3 ≃ 2, hyalinis. 1230

Hab. ad ligna molliora Salicis, Quercus, in Suecia, Germania. — E ligno carie consumpto emergens, nudo oculo vix conspicuum, armato cylindricum, diametro longitudinem duplo superante, opacum, apice rotundato obtusissimo. — β. **affine** Fr. l. c.: peritheciis primo cylindricis, dein ventricosis conicisque. Nudo oculo punctiforme, opacum. Cum typo.

29. **Sphæronæma cladoniscum** (Ach.) Fr. S. M. II. p. 537, *Calicium cladoniscum* Ach. Lich. p. 241. — Peritheciis cylindricis, subramosis, nigris, globulo minimo incluso albo. 1131

Hab. ad ligna putria salicina etc. in Suecia et Germania. — *Sph. cylindrico* nimis affine, nam reperiuntur etiam individua simplicia; tamen dignoscendum apice truncato subaperto, globulo (forsan deciduo) disci instar incluso. Vix ultra ½ lin. altum.

30. **Sphæronæma Populi** B. et C. North Amer. F. n. 406. — Peritheciis conicis vel subcylindricis, sparsis vel quandoque congestis; sporulis breviter fusiformibus, hyalinis, 10 μ. longis. 1132

Hab. in cortice Populi moniliferæ in America bor.

31. **Sphæronæma?? Acicula** Sacc., Rouss. et Bomm. Miscell. Mycol. p. 20. — Peritheciis spuriis in ligno superficie pruinoso-dealbato, laxe gregariis, superficialibus, minutis, acicularibus, apice truncatis, nigris, 150 ≃ 50, contextu prosenchymatico, subcarbonaceo, fuligineo; basidiis prælongis, filiformibus, fasciculatis, apice in vesiculam 1133

guttulatam, 18–20 = 8–10, desinentibus; sporulis oblongis, suballantoideis, deorsum acutioribus, 12–15 = 4–5, guttulatis, hyalinis.

Hab. in ligno putrescente Carpini Betuli prope Bruxelles Belgii. — Forma paradoxa (lichenosa?) a genere *Sphæronæmate* valde recedens.

32. **Sphæronæma decorticans** Lèv. Ann. Sc. Nat. 1846, p. 280. — Stromatibus innatis, effusis, nigris, maculæformibus; peritheciis crassis, cylindricis, ½ mill. altis, rugosis, ostiolis obtusis, albicantibus pertusis; sporulis elliptico-linearibus, continuis, pellucidis, obtusis, perexiguis. 1134

Hab. ad corticem Juglandis regiæ, Bagnolet. pr. Parisios. 1135

33. **Sphæronæma fasciculatum** Mont. et Fries Not. in Ann. Sc. Nat. 1834, 2, I., p. 346. — Peritheciis lageniformibus, basi connatis, apice divergentibus, nigris, globulo fugaci, livido.

Hab. in truncis Betulæ albæ in Arduennis. — Cfr. *Sph. glomeratum.*

34. **Sphæronæma glomeratum** Mont. (ubi?), Berk. et Br. North Amer. Fungi pag. 63. — Affine *Sph. vilicolo;* sporulis minutis breviter oblongis; basidiis sursum breviter ramulosis. 1136

Hab. in ramis quercinis in Carolina inf. Americæ bor. — «Species Montagnei adducta verisimiliter est *Sph. fasciculatum*, nam *Sph. glomeratum* in libris Montagnei invenire nequivi».

35. **Sphæronæma piriforme** Pers. Syn. p. 64. — Peritheciis late conicis, acutis, levibus; globulo ovali, deciduo, aterrimo. 1137

Hab. in ligno exsiccato Quercus in Germania et Suecia. — Sparsum vel gregarium, pusillum, opacum, aterrimum, glaberrimum, basi dilatata adnatum, globulo semper opaco.

36. **Sphæronæma subcorticale** C. et E. in Grevillea. — Gregarium, hinc inde seriatum; peritheciis cylindraceis, atro-brunneis, apice obtusis; sporulis globosis, hyalinis, 8–9 μ. diam. 1138

Hab. in cortice interiore Quercus, New Jersey Americæ borealis.

37. **Sphæronæma semipellitum** Wallr. Crypt. n. 3682. — Peritheciis pachydermaticis, e basi ovata subcutanea, tegmine fibroso, fusco obducta, crassiore in verticem nudum, convexum, nigrum, nitidum, poro tenui pertusum abeuntibus eoque mamillari epidermidem permeantibus globulumque sporularum cinereum, caducum stillantibus. 1139

Hab. ad caudices quercinos effossos languidos, rarius in Thuringia.

38. **Sphæronæma Spinella** Kalchbr. Bot. Zeit. 1862, p. 199. — Pe- 1140

ritheciis gregariis ex ovata basi subulatis, subincurvis, atris; globulo croceo; sporulis oblongo-cylindraceis (e polo globosis), hyalinis.

Hab. in ramis Salicis in Hungaria, Italia et Germania. — Teste Fuck. sistit spermogonium Cenangii saligni. — «Sporulæ in exemplaribus venetis cylindraceæ, curvulæ, 3 ≃ 1, basidiis simplicibus vel 2-3-furcatis suffultæ».

39. **Sphæronæma Coryli** Peck Rep. on St. Mus. N. York. — Peri- 1141
theciis cortice innatis, copiosis, minutis, leniter elevatis, truncatis, nigris, a matrice facile decedentibus; sporulis oblongis vel ellipsoideis, 13-14 μ. longis.

Hab. in ramis Coryli americanæ, West Albany Amer. bor. — Contextus facile comprimendus et sub vitro composito dilucide inspiciendus.

40. **Sphæronæma coronatum** Bon. Abh. Gebiete der Mykol. p. 143. 1142
— Peritheciis lageniformibus, nigrellis, profunde immersis, intus albidis, rostro longo cylindrico, apice prominente, dilatato et pilis curtis coronato; sporulis cylindricis, sublongis, obtusis.

Hab. in ligno pineo denudato in Germania.

41. **Sphæronæma Acrospermum** (Tode) Fr. S. M. II. p. 537, *Sphæria* 1143
Acrospermum Tode Meckl. f. 119. — Peritheciis cylindrico-ventricosis, levibus, nigris, globulo obsoleto, sordide flavicante.

Hab. in ligno Abietis et quercino in Germania. — Parsum, $^1/_2$-1 lin., vix fuscescens, et macula illa atramentosa lignum circa singulum tingens colorem prodit aperte fuscum. Forma inter cylindricam et obovatam per varios vacillat gradus, plerumque e tereti sursum subventricosa. Apex astomus parabolicus nitet, ut plurimum imperforatus, in nonnullis distincte pertusus, in paucis etiam globulo parvo, sordide flavicante, luculenter coronatus.

42. **Sphæronæma piliferum** Sacc. Mich. II. p. 342, *Sphæria pilifera* 1144
Curr. Simpl. Sphær. n. 289. — Peritheciis gre[illegible]iis, superficialibus, globulosis, exiguis, in ostiolum filiforme [illegible]ongius productis; sporulis ovoideis, 3 ≃ $^1/_4$, hyalinis, copiosissimis, nox ad apicem ostioli conglobatis.

Hab. in cortice interiore Pini in Gallia (Therry). — Est spermogonium *Ceratostomatis piliferi*, cujus vero asci nondum innotuerunt.

43. **Sphæronæma pithyum** Sacc. *Cenangii pithyii* pycnidium Fuck. 1145
Symb. p. 269. — Peritheciis 4-6 coacervatis sparsisve, stipitatis, globoso-conicis, demum subtilissime perforatis, nigris, atris; spo-

rulis minutissimis cylindraceis, curvatis, in sterigmatum ramosorum ramulis brevissimis, continuis insidentibus.

Hab. in ramis siccis Pini silvestris prope Œstrich Rhenogoviæ.

44. **Sphæronæma verrucosum** Corda Ic. IV. p. 39, f. 111. — Peri- 1146
theciis minutis, gregariis, utriculiformibus, erectis, plus minus prope medium irregulariter contractis, atris, subcorneis, verrucis majusculis exasperatis; globulo minuto albo; sporulis minutissimis oblongis, hyalinis.

Hab. in asseribus pineis putrescentibus, Reichenberg Bohemiæ.

45. **Sphæronæma Fuckelii** Sacc. Cfr. Fuck. Symb. App. I. p. 300. — 1147
Peritheciis cylindricis, gracilibus, levibus, nigris, apice acutis; sporulis cylindraceis, $6 \simeq 2$, hyalinis.

Hab. in ligno putri Pini silvestris in Germania. — Ad *Ceratostomellam multirostratam* Syll. I. p. 411, uti spermogonium, spectat.

46. **Sphæronæma colliculosum** Fr. S. M. II. p. 540. — Peritheciis 1148
complanatis, ellipticis, inæqualibus, scabrosis, atris; globulo fugaci, candido.

Hab. in lignis denudatis pineis in Suecia. — Cfr. *Coniothyrium colliculosum.* — Sparsum, innatum, lignum peculiari modo colliculosum reddens, raro globulo instructum, depressum, opacum, scabroso-pulverulentum.

47. **Sphæronæma ovoideum** Dur. et Mont. F. Alg. p. 581. — Peri- 1149
theciis erectis vel inclinatis, $^1/_4$ mill. alt., ovoideis, seriatis, atris, opacis, poro pertusis; sporulis subglobulosis, minutissimis; globulo non viso.

Hab. ad ramos Ephedræ altissimæ, Oran Algeriæ (Durieu).

48. **Sphæronæma truncatum** Fr. S. M. II. p. 539, *Sphæria cylindrica* 1150
A. S. Lus. p. 50. — Peritheciis cylindricis, crassis, truncatis, nigris; globulo promin[illegible]te candido.

Hab. ad ligna pinea et abiegna in Suecia, Germania et America boreali. — A *Sph. cylindrico* abunde diversum, multoties majus, firmius, longitudine diametrum paulo superante, globulo majore deciduo, apice truncato-umbilicatum. Primo ligno subinnatum, dein emergendo elevatum.

49. **Sphæronæma parabolicum** (Tode) Fr. S. M. II. p. 538, *Sphæria* 1151
parabolica Tode Meckl. 43, f. 115, Nees Syst. f. 345, A. — Peritheciis elongato-conicis, levibus, nigris; globulo prominulo livido.

Hab. in lignis putridis in Germania. — A Todeo dicitur «tenellum gelatinosum»: an ergo *Sphæronæmella?* — Aggregatum, non nisi oculo armato contemplabile, inferne fuscum, apice perforatum, globulo lurido-livido.

50. **Sphæronæma penicillatum** B. et C. North Amer. Fungi n. 399. 1152
— Peritheciis elongatis, ventricosis, e basi orbiculari oriundis, collo longo penicillato.

Hab. in ligno emortuo in Carolina inf. Amer. bor.

51. **Sphæronæma Rhamni** Sacc. *Dothioræ Rhamni* pycnidium Fuck. 1153
Symb. p. 276. — Peritheciis (in *Dothiora Rhamni* parasiticis) gregariis, minutissimis, globoso-conicis, aterrimis; sporulis minutissimis cylindraceis, curvulis, continuis, hyalinis, 4 ≃ 1–1,5.

Hab. in ramis siccis Rhamni Frangulæ prope Œstrich Rhenogoviæ.

52. **Sphæronæma conicum** (Tode) Fr. S. M. II. p. 538, *Sphæria co-* 1154
nica Tode Meckl. f. 116. — Peritheciis conicis, acutis, nigris; globulo sphærico, deciduo, flavo, atrescente; sporulis minutis, globosis ovatisve, hyalinis.

Hab. ad ligna et ramos Fagi, Abietis, Pruni, Rhamni in Suecia et Germania. — Sec. Fuck. spermogonium *Lasiosphæriæ ferrugineæ.* — Exiguum, subgregarium, passim irregulare, junius tomento subraro livido obsitum, quod etiam in speciminibus suecicis observatur. Guttula globosa, primo pellucida, antequam decidit, nitidissima, sæpius destitutum reperitur.

53. **Sphæronæma pistillare** Wallr. Fl. Crypt. n. 3680. — Peritheciis 1155
elongatis, strictis, rigidis, atro-piceis, nitidis, e basi tenui sensim in apicem incrassatis clavatis v. pistillaribus, vertice attenuato, poro exilissimo pertusis.

Hab. in rimis arborum e. g. Tiliæ, Pruni, rarius in Thuringia.

54. **Sphæronæma Robiniæ** B. et C. North Amer. Fungi n. 405. — 1156
Peritheciis liberatis subglobosis, ostiolo brevi truncato, primum pruinoso; sporulis hyalinis, oblongis, utrinque obtusis, 15 μ. long.

Hab. in ramis Robiniæ et Tiliæ in montibus Virginiæ et New York Amer. bor.

55. **Sphæronæma ventricosum** (Ach.) Fr. Obs. p. 188, t. II. f. 8, *Ca-* 1157
licium ventricosum Ach. — Peritheciis elongatis, simplicibus, compressis, medio ventricosis, nigris, globulo minuto, punctiformi, cinereo; sporulis fusoideis, curvulis, guttulatis vel non, hyalinis.

Hab. ad cortices arborum e. g. Tiliæ, Pruni in Lusatia. —

Gregarium, vix lineam longum, basi et apice angustatum, medio vel superne ventricoso-compressum, glabrum, opacum, apice apertum, tenuissime marginatum, globulo incluso discum minimum cinerescentem offerente.

56. **Sphæronæma rostratum** Fuck. Symb. p. 399. — Peritheciis plerumque semiimmersis, gregariis, globosis, cum rostro cylindraceo, perithecium subæquante, perforato, apice globulum candidum gerente; sporulis minutissimis, ovatis, hyalinis. 1158

Hab. in palis putridis in vineis prope Œstrich Rhenogoviæ.

57. **Sphæronæma cornutum** Preuss F. Hoyersw. n. 144. — Gregarium superficiale, atrum, epixylinum: peritheciis subglobosis, atris, floccis sparsis tectis, collo longissimo, cylindrico, supra fibroso, nucleo subalbo, globulo subalbo; sporulis ovatis, nucleatis, guttulis repletis. 1159

Hab. in ramis arborum frondosarum decorticatis, dejectis, Hoyerswerda.

58. **Sphæronæma æmulans** B. et Br. Ann. N. H. n. 1378, tab. VII. fig. 2. — Peritheciis subglobosо-rostratis, $1^1/_2$ altis, e mycelio sparso surgentibus, collo apice ciliato; sporulis perexiguis, globulosis, 2,5-2,7 μ. diam., oscillantibus. 1160

Hab. in lignis, Epping Forest Britanniæ.

59. **Sphæronæma cernuum** (Pr.) Sacc. *Sphærocista cernua* Preuss F. Hoyersw. n. 36. — Gregarium, superficiale, atro-fuscum, epixylum: peritheciis globosis, asperis; collo cylindrico flexili; nucleo subalbo; guttula pallida; basidiis filiformibus; sporulis cylindricis, subcurvatis, continuis, albis. 1161

Hab. in ramis frondosis decorticatis, Hoyerswerda.

60. **Sphæronæma sphæricum** Preuss F. Hoyersw. n. 286. — Gregarium; peritheciis subglobosis, atris, ligno subinsidentibus; ostiolis minutis subacutis; globulo seu cirro minuto fusco; sporulis oblongis, utrinque obtusis, subalbis. 1162

Hab. in ligno nudo subputrido betulino, Hoyerswerda.

B) In Dicotyledoneis herbaceis.

61. **Sphæronæma corneum** C. et Ell. in Grevillea. — Sparsum, corneum; peritheciis cylindraceis, centro turgidis, apice rotundatis; sporulis linearibus, rectis, hyalinis, minutis, 8 μ. longis. 1163

Hab. in caule Œnotheræ, New Jersey Amer. bor.

62. **Sphæronæma heteromorphum** Dur. et Mont. Fl. Alg. p. 581. — Sphæriæforme; peritheciis innato-tectis, gregariis, depressis, intus albo-farctis, $^1/_2$ mill. crass., 150 μ. alt., ostiolo prominulo, acuto, 1164

200 μ. alto instructis; globulo opalino; sporulis lineari-oblongis, 10 ≃ 2-3, hyalinis.

Hab. ad caulem herbæ cujusdam ad Bouzaréah prope Alger (Durieu). — «An *Phoma?*».

63. **Sphæronæma lageniforme** Speg. Fung. Arg. I. p. 34. — Peri- 1165
thecciis laxe gregariis, lageniformibus, in ligno decorticato basi insculptis, atris, in collum elliptico capitatum pellucidum, e muco sporigero exsiliente subviscosum elongatis, contextu prosenchymatico, fuligineo; sporulis minutissimis, 2 ≃ 1, ellipticis vel ovoideis, hyalinis, in sterigmatibus filiformibus, 7-8 ≃ ½, hyalinis, acrogenis.

Hab. in ramulis emortuis dejectis Solani bonariensis in Argentina Amer. merid.

64. **Sphæronæma Geranii** Ces. Bot. Zeit. 1848, p. 294. — Peritheciis 1166
epiphyllis, superficialibus, ovoideis, superne hispidis gregariis (tunc circinantibus, tunc ad nervos diffusis); sporulis subtruncatis, obtusis.

Hab. in foliis adhuc vivis Geranii rotundifolii, Brixiæ Ital. bor. — «An *Venturia?*».

65. **Sphæronæma deformans** Berk. Gard. Chron. 1851, n. 36. — Pe- 1167
ritheciis elongatis, pluribus, in pustula pallida innatis; ostiolis emergentibus, exasperantibus; sporulis perexiguis, ellipsoideis, brevissime stipitatis, hyalinis.

Hab. in pag. inf. foliorum vivorum Eranthemi pulchelli in hortis londinensibus.

66. **Sphæronæma comatum** Ces. Bot. Zeit. 1851, p. 646. — Solita- 1168
rium, superficiale, hypophyllum; peritheciis ovatis, basi applanatis, areolatis, membranaceis, nigrescentibus (primitus virentibus, semipellucidis), vertice pilis subulatis arrectis obsito; sporulis ovalibus.

Hab. in foliis ..... Vercelli Italiæ borealis.

67. **Sphæronæma hispidulum** Corda Ic. IV. p. 39, f. 112. — Peri- 1169
theciis gregariis, superficialibus, atris, utriculiformibus, dein irregularibus, rugulosis, infra nudis, collo elongato vel ventricoso, aculeis sparsis, rigidis obsito, globulo albo; sporulis fusoideis, acutis minutis, albo-hyalinis.

Hab. in caulibus et culmis herbarum putrescentibus, Prag Bohemiæ.

68. **Sphæronæma subtile** (Fr.?) Bonord. Abh. Gebiete der Mykol. p. 143. 1170
— Peritheciis membranaceis, parvis, nigris, sublevibus, hemisphæricis, subimmersis, subtus deplanatis et radicosis, primum globosis, brunneis, dein papillatis, demum rostratis et nigris, apice obtuso, poro pertuso.

Hab. in caulibus Urticæ in Germania.

69. **Sphæronæma Preussii** Sacc. *Sphærocista rostrata* Preuss Fung. Hoyersw. n. 39. — Peritheciis sparsis, nigris, e basi subglobosis, primo immersis, in collum cylindricum rectum exsertis; pulpa sporarum pallida; basidiis filiformibus; sporulis ovatis, continuis, albis. 1171

Hab. ad caules herbarum elatiorum, Hoyerswerda.

C) In Monocotyledoneis, Acotyledoneis, inque tela etc.

70. **Sphæronæma Caminus** B. et C. Cub. Fungi n. 554. — Peritheciis carbonaceis, elongato-conicis, 2 mill. altis, basi confluentibus. 1172

Hab. in caule putri Monocotyledoneæ cujusdam in Cuba. — Sporulæ ignotæ, sed totus habitus *Sph. Spinæ*.

71. **Sphæronæma epiglæum** B. et C. North Amer. F. n. 401. — Peritheciis globosis, innatis, in collum cylindricum sensim attenuatis. 1173

Hab. in Tremella quadam in America boreali.

72. **Sphæronæma helicomyxa** Fres. Beitr. 29 t. IV. f. 24-29. — Peritheciis e basi globosa in rostrum duplo longius, cylindraceum, apice subpenicillatum attenuatis, $^1/_2$ mill. alt., nitide nigris; globulo compresso albo-hyalino; sporulis muco diu nidulantibus, perexiguis, ovato-oblongis, curvulis, 2,5-3 μ. longis, hyalinis. 1174

Hab. in fungis variis putredine decompositis atratisque vinoque mixtis et in capsula clausa diu servatis, in Germania.

73. **Sphæronæma microscopicum** Wallr. Fl. Crypt. n. 3671. — Peritheciis conoideis, minutissimis, nigris, gregariis, e vertice truncato globulum sporophorum albidum transmittentibus. 1175

Hab. ad velum Dædaleæ quercinæ putridæ in Thuringia.

74. **Sphæronæma epimyces** (Fr.) Berk. Outl. p. 315 *Sphæria epimyces* Fr. S. M. II. p. 499, Syll. II. p. 425. — Peritheciis gregariis, maculis purpurascentibus innatis, globosis, papillatis, nigris, nucleo albo; sporulis..... 1176

Hab. in Corticio comedente emortuo in Suecia et Britannia. — «An *Hypomyces* sterilis?».

75. **Sphæronæma lichenophilum** Dur. et Mont. Fl. Alg. pag. 579. — Parasiticum, gregarium; peritheciis semiimmersis ovoideo-acuminatis, simplicibus, nigris, ostiolo acuto recto aut curviusculo instructis, nucleo albo; sporulis minutissimis oblongis, $5 \simeq 2{,}5$, hyalinis, oscillantibus. 1177

Hab. in crusta Lecideæ canescentis ad truncos Chamæropis in summo monte Bouzaréah prope pagum in Algeria (Durieu).

76. **Sphæronæma Pteridis** (A. S.) Fr. S. M. II. p. 540, *Sphæria Pteridis* A. S. Lus. p. 49, t. 10, f. 5. — Peritheciis subtuberculosis e badiofuscis, primum globoso-depressis, dein obconicis collabascendo obcordatis. 1178

Hab. ad frondes Pteridis humi prostratis a nive vix dum soluta obtectis, in Germania. — Accedit ad Sclerotia, sed primo inventionis momento exempla nonnulla globulo spermatico albido fugacissimo coronata, $1^1/_2$ lin. alta, 1 lin. lata. «Ex icone potius discomyces mihi videtur».

77. **Sphæronæma lintearium** (Mont.) Sacc. *Sphæria* (Aposphæria) *lintearia* Mont. Fl. Chil., VII. p. 466, t. 10, f. 6 et Syll. n. 818. — Ceratostomum, sparsum, semiliberum; peritheciis subglobosis, atris opacis, tandem collapsis, ostiolo crasso, stricto, truncato; sporulis lineari-oblongis minimis. 1179

Hab. in tela semicorrupta in Chile (Gay).

II. *Nœmosphæra* Sacc.

Sporulæ coloratæ.

78. **Sphæronæma Magnoliæ** Peck 26 Rep. p. 76. — Peritheciis sparsis, erumpentibus, nigris, ostiolo spiniformi, 2–3 mill. alto; sporulis late ellipsoideis v. subglobosis, subinde 1-nucleatis, 10 μ. long. maturis coloratis. 1180

Hab. in ramis Magnoliæ acuminatæ, Portville Amer. bor. Habitus *Sph. Spinæ*, sed sporulæ alienæ.

79. **Sphæronæma ossis** Pr. Hoyersw. n. 287. — Peritheciis globoso-conicis, subcorneis, atris, nucleo fusco-gelatinoso; sporulis ovatis fuscis, in medio unam guttulam oleosam minorem continentibus. 1181

Hab. in ossibus subputrescentibus, Hoyerswerda.

III. *Species nomine tantum notæ.*

80. **Sphæronæma circinans** Peyl Lotos 1858, p. 31. — In Bohemia orientali. 1182

81. **Sphæronæma amenticolum** Ces. Bot. Zeit. 1857, p. 173. — A *Ceras. pilifero* affinibusque peritheciis immersis differt; sed sporulæ (ob immaturitatem) nullæ. — In amentis, in cupulis pedunculisque Quercus pedunculatæ in Italia et Germania. 1183

82. **Sphæronæma concors** Rav. Carol. II. n. 64. 1184

83. **Sphæronæma epicecidium** Berk. in Hook. Kew Gard. Misc. I. 291, t. X. fig. B., Hook. Journ. (1851) p. 18. 1185

Hab. in gallis Caripi (Spruce) et Para (Home) in Brasilia.

CHÆTOPHOMA Cooke in Grevillea III. p. 25 (Etym. *chæte*, seta et *Phoma*). — Perithecia membranacea, minutissima, superficialia, intra hyphas intricatas plerumque nidulantia; sporulæ minimæ, continuæ, hyalinæ, sæpe ovales vel ellipsoideæ. — Genus sistit verisimiliter spermogonia *Asterinæ* v. *Meliolæ*.

1. **Chætophoma ilicifolia** Cooke in Grev. t. 118, f. 3. — Hypophylla, 1186
fuliginea, maculæformis; hyphis byssinis ramulosis, intricatis, brunneis, ramulis adscendentibus, cladosporioideis; peritheciis brunneis, globosis, 70 μ. diam., sparsis; sporulis ellipticis vel ovalibus, hyalinis, 4 ≃ 2,5.

Hab. in foliis Ilicis opacæ in Carolina aust. Americæ borealis (Ravenel).

2. **Chætophoma quercifolia** Cooke in Grevillea tab. 118, f. 1. — Hy- 1187
pophylla, effusa, fuliginea; hyphis byssoideis repentibus, 30-40 μ. diam., flexuosis, furcatis, intricatis, brunneis; peritheciis globosis, fuscis, gregariis vel sparsis; sporulis minimis, ovatis, hyalinis, 3 ≃ 2.

Hab. in foliis Quercus nigræ in Carolina austr. Americæ borealis (Ravenel). — Affine *C. ilicifoliæ* sed perithecia minora et gregaria.

3. **Chætophoma Catesbeyi** Cooke in Grev. t. 118, f. 2. *Phoma Ca-* 1188
tesbeyi Thüm. Flora, 1878, p. 179. — Hypophylla, fusca; hyphis byssoideis, ramosis, intricatis, brunneis, repentibus; peritheciis gregariis, foliorum paginam inferiorem omnino occupantibus, subglobosis, fuscis, 25-30 μ. diam.; sporulis sub-ovato globosis, hyalinis, 2,5 μ. diam.

Hab. in foliis Quercus Catesbeyi in Carolina infer. Amer. borealis (Ravenel). — Sec. Thüm. l. c. adsunt basidia brevissima, filiformia, hyalina.

4. **Chætophoma atrella** Cooke et Harkn. in Grev. 1880, p. 6. — Atra, 1189
effusa, velutina; hyphis erectis, simplicibus, flexuosis, cum conidiis ellipsoideis, 1-2-septatis; peritheciis globosis, 80-180 μ. diam., brunneis, membranaceis; sporulis minutis, ovatis, 4 ≃ 3.

Hab. in cortice Aceris macrophylli in California Amer. bor.

5. **Chætophoma Catalpæ** Cooke in Grevillea t. 118, f. 4. — Hypo- 1190
phylla, effusa, brunnea; hyphis byssoideis repentibus, flexuosis, ramulosis, paucis; peritheciis globosis, brunneis, 40-50 μ. diam.; sporulis subovatis, hyalinis, 2 ≃ 1,5.

Hab. in foliis emortuis Catalpæ cordifoliæ in Carolina austr. Amer. bor. — Hyphæ parciores, cladosporioideæ, conidiis 1-septatis.

6. **Chætophoma fœda** Sacc. *Capnodii fœdi* spermog. Sacc. Syll. I. pag. 77. — Hyphis intricatis ramosis repentibus, septatis, fuligineis, hinc inde coalescendo dilatationes cellulares irregulares formantibus crustasque latas, atras, facile secedentes efficientibus; conidiis hinc inde inspersis ovoideo-fusoideis, 1-3-septatis, cladosporioideis; perithecis ex hyphis oriundis globoso-depressis, 50 μ. diam., astomis vertice laciniatim dehiscentibus, contextu minute parenchymatico, fuligineo; sporulis sphæroideis, 3-4 μ. diam., hyalinis, 1-guttatis. 1191

Hab. in foliis ramulisque vivis junioribus Nerii Oleandri in Italia, Lusitania, Austria, America boreali.

7. **Chætophoma Penzigi** Sacc. *Meliolæ Penzigi* pycnid. Penz. F. agrum. p. 18, fig. 1134. — Hyphasmate capnodiaceo atro; peritheciis globulosis, mycelio nidulantibus, atris, minute pertusis, basi hyphis intricatis cinctis, sursum inermibus v. setosis; sporulis ellipsoideis, biguttulatis, hyalinis, 5-6 ≃ 2,5. 1192

Hab. in foliis vivis Citrorum, morbo *Morfea* dicto affectorum, in Italia bor., Gallia etc., socia *Meliolæ*.

8. **Chætophoma Citri** Sacc. *Meliolæ Citri* pycnid. Penz. F. agrum. p. 17, f. 1132. — Hyphasmate capnodiaceo atro; peritheciis in eodem nidulantibus, globulosis, exiguis, hyphis intricatis cinctis, sursum inermibus v. setulosis, atris; sporulis oblongis, 3,5-5 ≃ 2-2,5, hyalinis, demum cirrose expulsis. 1193

Hab. in foliis vivis Citrorum, morbo *Cenere* affectorum, in Sicilia, socia *Meliolæ*.

9. **Chætophoma fusca** Karst. Hedw. 1884, p. 60. — Subiculo late effuso, fusco; peritheciis subiculo leviter immersis, sphæroideis, subastomis, nitentibus, 2 μ. lat.; sporulis botuliformibus, curvulis, hyalinis, 3-4 ≃ 0,5-1. 1194

Hab. supra lignum pineum induratum ad Aboam Fenniæ.

10. **?Chætophoma Georginæ** (Corda) Sacc. *Sph. Georginæ* Corda Ic. III. p. 27, f. 72. — Cæspitibus aterrimis, irregulariter expansis; peritheciis confertis, obovatis v. mamillatis, pilis dein longis, ramosis, fuscescentibus, septatis tectis, coriaceis, nigricantibus, ostiolo papillato, globulo albido; sporulis minutissimis ovoideis, hyalinis, 5-7 μ. longis. 1195

Hab. in caulibus putridis Georginarum in hortis Pragæ Bohemiæ. — «An *Pyrenochæta?*».

11. **Chætophoma myriospora** Cooke Grev. XII. p. 24. — Sparsa, fusca; hyphis erectis simplicibus, septatis, conidiis macrosporoideis, 1196

clavatis, 40 ≃ 13; peritheciis globoso-depressis, minimis, 50 μ. diam., membranaceis; sporulis ellipsoideis, minutis, hyalinis, 3 ≃ 1.

Hab. in caulibus Delphinii in Carolina inf. Amer. bor.

12. **Chætophoma anthelmintica** Cooke Grev. t. 119, f. 5, — Epiphylla, atro-fuliginea; hyphis byssoideis repentibus, brunneis, ramulosis, ramulis conidiiferis, erectis, cladosporoideis; peritheciis globoso-depressis, brunneis, 100 μ. diam.; sporulis arcte ellipticis, obtusis, hyalinis, 7 ≃ 3. 1197

Hab. in foliis languidis Chænopodii anthelmintici in Carolina austr. Amer. bor. (Ravenel).

13. **Chætophoma Musæ** Cooke Grev. XII. p. 24. — Effusa atro-fusca, pannosa; hyphis intertextis, cladosporioideis (*Cladosporium pannosum* Cooke); peritheciis globoso-depressis, membranaceis, fuscis, 80 μ. diam.; sporulis ellipsoideis, hyalinis, 4 ≃ 2. 1198

Hab. in foliis Musæ in Carolina inf. Amer. bor.

14. **Chætophoma Sabal** Cooke Grev. XII. p. 24. — Sparsa, fusca, velutina; hyphis conidiisque ut in *Macrosporio;* peritheciis subglobosis, membranaceis, fuscis, 100 μ. diam.; sporulis ellipsoideis, hyalinis, 4 ≃ 1,5. 1199

Hab. in Sabal in Carolina inf. Amer. bor. (Ravenel).

15. **Chætophoma Cycadis** Cooke Grev. t. 119, f. 6. — Hypophylla, maculiformis, sparsa, brunnea; hyphis byssoideis ramosis, repentibus, ramulis conidiiferis assurgentibus, macrosporoideis; peritheciis lageniformibus, superne attenuatis, fuscis, 150 ≃ 90; sporulis ellipticis, hyalinis, 5 ≃ 3. 1200

Hab. in foliis Cycadis in Carolina austr. Amer. bor., socio *Macrosporio communi* (Ravenel). — Sporulæ ex apice perithecii cirrose exsilientes.

ASTEROMA DC. Mem. Mus. III. p. 329, 336, Fr. S. M. II. p. 602 (Etym. *aster* ob fibrillas radiantes). — Perithecia minima, globulosa, prominula, conferta, subconfluentia, ambitu maculiformi, fibrillis innatis subradiato. Sporulæ (in typicis) continuæ, hyalinæ, ovoideæ v. breve cylindraceæ. — Multæ adsunt species sporulis v. peritheciis adhuc ignotis, quæ in appendicem traduntur.

I. *Eu-Asteroma.*

Perithecia et sporulæ cognita.

1. **Asteroma Padi** Grev. Loud. Hort. p. 459. Fr. Elench. II. p. 151. Berk. in Ann. N. H. n. 201, t. 11, f. 4. *Actinonema Padi* Fr. Sum- 1201

ma Veg. p. 424. — Epiphylla, macularis, fibrillis confluentibus radiantibus, rufescentibus, apice pallidis; peritheciis innatis fuscescentibus; sporulis perexiguis, cylindraceis, curvis, utrinque rotundatis, hyalinis.

Hab. in foliis Pruni Padi in Gallia, Britannia, Germania et Belgio. — Sec. Rud. in Linnæa IV. p. 117, macula violaceo-fusca; fibrillæ pulcherrime fruticuloso-ramosæ, flabelliformiter expansæ, longissimeque radiatæ, media linea alba spinulosa percursæ; perithecia minutissima conferta. «Habitus potius *Actinonematis* sed sporulæ, quantum video, continuæ».

2. **Asteroma cerasicolum** Sacc. *A. Cerasi* Cooke Grev. XII. p. 24 nec Desm. — Hypophyllum; maculis orbicularibus, radiantibus, atris; peritheciis parvulis, applanatis, mycelio fusco insidentibus; sporulis ovalibus, continuis, hyalinis, 4 = 2. 1202

Hab. in foliis Cerasi Caroliniensis in Carol. inf. Amer. bor.

3. **Asteroma Rubi** Fuck. Symb. p. 384 (*Actinonema*). — Peritheciis punctiformibus, gregariis, applanatis, subtilissime perforatis, atris; fibrillis repentibus, subadscendentibus, subtilissimis, ramosis, fusco-olivaceis; sporulis minutissimis, globosis, hyalinis. 1203

Hab. in sarmentis vivis Rubi Idæi in Jura Helvetiæ (Morthier).

4. **Asteroma geographicum** (DC.) Desm. Ann. Sc. not. 1841, p. 139. *Sphæria geographica* DC. Fl. Fr. VI. pag. 139. — Epiphyllum, atrum, macula nulla; peritheciis orbiculatis planis, lineolis nigris flexuosis insidentibus, picturam catenuliformem serpentinam mentientibus; sporulis oblongis, 20 μ. longis, guttulatis. 1204

Hab. in foliis Cratægi Ariæ, C. torminalis, Pruni lusitanicæ, P. serotinæ virginianæ, Piri, Mali, Nyssæ in Gallia, Germania, Italia et America boreali. — Lineolæ mappam geographicam referunt, circumscribunt plerumque plura individua; perithecia perexigua, disciformia.

5. **Asteroma atramentarium** Berk. N. Am. F. n. 456. — Nigerrimum, compactum, expansum; floccis radiantibus reticulatis; peritheciis minutis; sporulis brevibus, subcymbiformibus, 12 μ. longis. 1205

Hab. in foliis Amelanchieris et Piri arbutifoliæ in Carolina infer. Amer. bor.

6. **Asteroma Fuckelii** Sacc. *Asteroma atramentarium* Fuck. Symb. p. 384, nec Berk. — Stromate adnato, repente, fibrilloso, aterrimo; peritheciis numerosis, minutissimis, planis, subcupulatis, concoloribus; sporulis minutis, globosis. 1206

Hab. in pag. inferiore foliorum Populi monilioidis, et P. Tremulæ, quæ interdum penitus fere atrantur, in Germania et Sibiria.

7. **Asteroma punctiforme** Berk. N. Am. F. n. 455. — Punctiforme; floccis radiantibus tenerrimis; sporulis simplicibus cymbiformibus, 3–4 nucleatis. 1207

Hab. in foliis Rosarum in America boreali.

8. **Asteroma Haussknechtiæ** Cooke. Grev. 1880. p. 13. — Peritheciis atris, minimis, in maculas nigras irregulares congestis; sporulis arcte ellipticis, hyalinis, 6 μ. longis. 1208

Hab. in foliis languidis Haussknechtiæ, Luristan Persiæ (Haussknecht). — «An *Asteromella?*».

9. **Asteroma Liriodendri** Cooke, Grev. XII. p. 25. — Amphigenum; maculis parvulis, suborbicularibus, fuligineis; peritheciis convexis, atris; sporulis minutissimis, ovalibus, hyalinis, 1,5 = 1. 1209

Hab. in foliis Liriodendri in Carolina infer. Amer. bor.

10. **Asteroma tinctorium** Cooke, Grev. XII. p. 25. — Epiphyllum; maculis suborbicularibus, atro-cinereis; peritheciis irregularibus, applanatis, 100 μ. diam., atris; sporulis ovato-ellipticis, hyalinis, 2 = 1. 1210

Hab. in foliis Quercus tinctoriæ in Carol. inf. Amer. bor.

11. **Asteroma Hedysari** Thüm. Pilzfl. Sibir. n. 608. — Maculas magnas, plus minusve orbiculatas, obscure griseas, epiphyllas formans; fibrillis dilute fuscidulis, ramulosis, tenuibus; peritheciis minutis, dense congestis, hemisphæricis, atris, numerosis; sporulis rarissimis, minutissimis, cylindraceis, achrois, utrinque obtusis, 3 = 1. 1211

Hab. in foliis vivis et languidis Hedysari setigeri pr. Minussinsk Sibiriæ asiaticæ.

12. **Asteroma Hyperici** Lasch Hedw. 186. p. 158. — Peritheciis subrotundis nigris, nucleo albo farctis, floccis radiantibus, subviridi-cinerescentibus innatis, ostiolo obsoleto; sporulis oblongis. 1212

Hab. in caulibus emortuis Hyperici perforati et attenuati pr. Driesen (Lasch), Œstrich (Fuckel), Minussinsk Sibiriæ (Martianoff).

13. **Asteroma Martianoffianum** Thüm. Pilzfl. Sibir. n. 429. — Fibrillis aterrimis, nitidis, in foliorum nervis congestis et delineationem dendriticam formans, explanato-effusis, hypo-raro etiam epiphyllis; peritheciis numerosis, plerumque sublinearibus, sparsis; sporulis cylindraceo-ellipticis, utrinque rotundatis, hyalinis, simplicibus, 5 = 2. 1213

Hab. in graminosis ad folia viva Mulgedii sibirici prope Minussinsk Sibiriæ asiaticæ.

14. **Asteroma radiatum** Fuck. Symb. p. 385. — Peritheciis in macu- 1214
læ exaridæ centro congestis, applanatis, minutissime papillatis, aterrimis; sporulis minutissimis, cylindraceis, curvatis, hyalinis.

Hab. in foliis adhuc vivis Dentariæ pentaphyllæ in Jura Helvetiæ (Morthier).

15. **Asteroma Alliariæ** Fuck. Symb. 385. — Fibrillis aterrimis, niti- 1215
dis, primariis in foliorum nervis dense congestis, secundariis subtilissime fasciculato-ramosis; peritheciis ad fibrillas secundarias erumpentibus, mollibus, hemisphæricis, astomis, fuscis; sporulis parvis, simplicibus, cylindraceis, hyalinis.

Hab. in foliis radicalibus viventibus Erysimi Alliariæ in silva Grossgerau Germaniæ.

16. **Asteroma Dianthi** Cooke et Harkn. Grev. 1881, p. 84. — Ma- 1216
culis irregularibus, cinereis; peritheciis convexis; hyphis tenuibus, fuscis, radiantibus; sporulis minimis, hyalinis, ellipticis, 5–6 ≃ 2.

Hab. in caulibus foliisque Dianthi in California Amer. bor.

II. *Asteromata dubia.*

Sporulæ et subinde ipsa perithecia adhuc ignota.

A) In Dicotyledoneis lignosis.

17. **Asteroma vagans** Desm. XIV. Not. p. 36. *Ast. Tiliæ* Rud. in 1217
Linnæa IV. p. 514. — Maculis amphigenis brunneis, siccis cinereis, orbiculatis, fibrillis tenuissimis, articulatis, ramosis, divaricatis, quoquoversus irregulariter radiantibus, epidermide tectis, articulis fibrillarum diametro suo sesquilongioribus; peritheciis sparsis exiguis, globosis, nigris semiemergentibus, circ. 50 μ. diam.

Hab. in foliis languidis Tiliæ, Carpini, Viburni Opuli, Populi Tremulæ, Syringæ vulgaris, Frangulæ in Gallia, Italia, Germania. — Fibrillæ sec. Rodulphi articulato-constrictæ, valde notabiles.

18. **Asteroma frigidum** Sacc. Mich. II, p. 369. — Fibrillis radianti- 1218
bus copiosis, tenuibus, maculas subcirculares, 2–4 mill. diam., cinereo-nigricantes amphigenas efficientibus; peritheciis (vacuis) intermixtis, punctiformibus.

Hab. in foliis, hieme frigidissimo 1879–80 necatis, Evonymi japonici, Padova, Treviso, Firenze Italiæ et Rouen Galliæ.

19. **Asteroma inflatum** Rob. et Desm. 18 Not. p. 6. — Amphigenum; 1219
maculis griseo-cinereis, subrotundatis, sparsis vel confluentibus e

fibrillis innatis, inflatis aut nodosis radiantibus; nodulis seriatis sæpius oblongis, plus minusve approximatis; peritheciis non observatis.

Hab. in foliis deciduis Evonymi latifolii in Gallia.

20. **Asteroma nitidum** Desm. 9 Not. p. 22. — Epiphyllum, atrum, nitidum, rotundum, maculiforme, margine radiosum; peritheciis parum conspicuis, innatis, sparsis, subseriatis. 1220

Hab. in foliis vivis Rhamni Alaterni in Gallia.

21. **Asteroma comptum** Rob. et Desm. 26 Not. p. 349. — Epiphyllum; maculis amphigenis, cinereis, magnis, suborbiculatis, dein irregularibus et confluentibus; fibrillis epiphyllis, elongatis, compressiusculis, dichotomis, apice fasciculatis, primo albidis, dein picco-nigris, in ambitu radiatis; peritheciis seriatis vix conspicuis. 1221

Hab. in foliis siccis Viburni Lantanæ in Gallia.

22. **Asteroma dendriticum** Desm. 16 Not. p. 349. — Epiphyllum, magnum, nigrum, rotundatum, maculiforme; fibrillis articulatis, brunneis, elongatis, ramosissimis, e centro radiantibus; ramis divaricatis; ramulis subfastigiatis, quandoque fasciculatis; peritheciis seriatis vix conspicuis. 1222

Hab. in foliis siccis et vetustis Viburni Opuli in Gallia et Germania. — *Sphæria? dendritica* Wallr. Fl. Crypt. n. 3912 huc verisimillime spectat.

23. **Asteroma Loniceræ** Desm. Ann. Sc. nat. 1840, p. 10. — Peritheciis microscopicis, globulosis, nigris, centralibus; maculis orbicularibus, opace nigricantibus, 3-5 mill. diam.; fibrillis radiantibus, nodulosis (ob perithecia?). 1223

Hab. in pag. sup. foliorum emortuorum Loniceræ Periclymeni in Gallia et Belgio.

24. **Asteroma Laureolæ** Chev. Fl. Par. I. p. 448. — Subrotundum foliumque pallide decolorans; fibrillis innatis; peritheciis minutis confertissimis, ad ambitum maculæ seriatis. 1224

Hab. in pagina superiore foliorum Daphnes Laureolæ in Gallia.

25. **Asteroma Mespili** Rob. et Desm. 18 Not. p. 6. — Amphigenum; maculis brunneis, sparsis, sæpe rotundatis, e fibrillis innatis ramosis centrifugis formatis; ramis numerosis divaricatis; peritheciis paucis, minutissimis, nitidulis. 1225

Hab. in foliis siccis Mespili germanicæ in Gallia. — F. **Eriobotryæ** Thüm. F. Lit. n. 174. In foliis subvivis Eriobotryæ japonicæ, Gorizia.

26. **Asteroma Pyracanthæ** Desm. 24 Not. p. 15 (*Asterina*). — Amphigenum, maculis minutis, brunneis; fibrillis vix distinctis epidermide tectis; peritheciis innatis exilissimis, nigris, nitidis, numerosis, in series dispositis; sporulis non visis. 1226

Hab. in foliis vivis, dein exsiccatis, Mespili Pyracanthæ in Gallia.

27. **Asteroma Cerasi** Rob. et Desm. 24 Not. p. 16. — Amphigenum; maculis sparsis vel approximatis, minutis, rotundatis, e fibrillis innatis, nigris, ramosis; ramis dichotomis, rectis, radiantibus; peritheciis non observatis. 1227

Hab. in foliis siccis Cerasi in Gallia. — Affine *Asteromati Mespili* et *Virgiliæ*. — β. **ramulicolum** Sacc. Mich. In ramulis Cerasi in Normandie (Malbranche). Fibrillæ eximie radiato-fimbriatæ, articulis fuscidulis, guttulatis.

28. **Asteroma Mali** Desm. 8 Not. p. 13. — Epiphyllum, minimum, rotundum, maculiforme, griseo-nigrum; fibrillis tenuissimis, margine vix distinctis. 1228

Hab. in foliis Mali in Gallia et Italia boreali.

29. **Asteroma? Piri** Rob. et Desm. 24 Not. p. 17. — Maculis brunneolis, sparsis; fibrillis radiantibus nigris, nitidulis, ramulosis, flexuosis, parce intertextis, sursum leniter crassioribus; peritheciis ignotis. 1229

Hab. in foliis Piri communis in Gallia.

30. **Asteroma Punicæ** (Mont.) Sacc. *Sphæria Punicæ* Mont. Ann. Sc. Nat. 2. I. et Syll. n. 869, p. 345. — Hypophyllum; peritheciis innato-prominulis, minimis, nigris, astomis, maculas orbiculares stromate fibrilloso-radiato innato cinereas, demum nigras efformantibus. 1230

Hab. in foliis delapsis Punicæ Granati circa Perpinianum Galliæ.

31. **Asteroma alpinum** Sacc. Mich. II. p. 300. — Maculis minutis, subcutaneis, atris, ex hyphis radiantibus efformatis; hyphis ramosis toruloso-septatis, fuligineis, articulis nucleatis, 10-20 μ. diam. 1231

Hab. in foliis Arctostaphyli alpinæ, Cadore Italiæ borealis (S. Venzo).

32. **Asteroma circinans** Desm. 17 Not. p. 26. — Epi- rarius hypophyllum; maculis minutis, orbiculatis, fuscis vel griseis, dein brunneis, sparsis, distinctis, quandoque confluentibus; fibrillis innatis, tenuissimis, sæpe inconspicuis, evanidis; peritheciis perexiguis, nigris, subnitidis, globosis, circinantibus. 1232

Hab. in foliis vetustis Phillyreæ in Gallia, Austria et Ita-

lia boreali. — Sec. ipsum auctorem l. c. *Ast. Castaneæ* utpote hujus varietas censendum est.

33. **Asteroma Diospyri** (Schw.) Sacc. *Xyloma Diospyri* Schw. Carol. n. 272. — Epiphyllum, tenuissimum, opacum, atrum; peritheciis minutissimis in maculam substellatam confluentibus. 1233

Hab. in foliis junioribus Diospyri virginianæ in America boreali. — Maculæ 2–3 unc. latæ multoties minores v. in folio vivo planæ expansæ, in sicco impressæ, concavæ. Color quam maxime ater et opacus; pagina inferior fuscescit.

34. **Asteroma Aceris** Rob. et Desm. Nouv. Not. X. p. 33. — Amphigenum, maculiforme; fibrillis tenuissimis, rufo-brunneis, ramosis, flexuosis, quoquoversus irregulariter radiantibus; peritheciis sparsis, nigris, globosis, semi-emergentibus. 1234

Hab. in foliis siccis Aceris campestris in Gallia.

35. **Asteroma Corni** Desm. Nouv. Not. X. p. 33. — Epiphyllum; maculis fuscis, suborbiculatis vel irregularibus et confluentibus; fibrillis innatis, fuscis, ramosis, e centro radiantibus; ramis brevioribus, divaricatis; peritheciis seriatis, vix conspicuis. 1235

Hab. in foliis languescentibus Corni sanguineæ in Gallia et Helvetia.

36. **Asteroma obscurum** Desm. XIX. Not. p. 8. — Maculis epi- raro hypophyllis, atris, sæpe magnis, suborbiculatis, subinde confluentibus, fibrillis innatis, numerosis, confusis, fusco-nigris, ramosis; ramis ambitu radiatis; peritheciis minutissimis vix distinctis. 1236

Hab. in foliis semiputridis Corni sanguineæ in Gallia, Germania et Helvetia.

37. **Asteroma rhoinum** Dur. et Mont. Fl. Alg. p. 610. — Amphigenum; maculis orbiculatis, tandem confluenti-crustaceis, atro-fuscis, inquinantibus; fibrillis a centro radiantibus laxe dichotomis simplici multiplicique serie cellularum formatis, apice dilatatis; peritheciis numerosis tenuibus; sporulis 1237

Hab. in foliis siccis Rhois coriariæ, Bouzaréah Algeriæ (Durieu) et in Istria (Bolle).

38. **Asteroma confervoides** Grogn. Crypt. Saon. p. 126. — Maculis confertis, olivaceis; fibrillis brevibus, regularibus, confervoideis, densis. 1238

Hab. in ramulis vivis Lycii in Gallia. — Inter *A. delicatulum* et *A. tenerrimum* medium videtur.

39. **Asteroma umbonatum** Desm. 24 Not. p. 14 *(Asterina)*. — Epiphyllum; maculis minutis, fusco-brunneis, sparsis, rotundatis, dein 1239

confluentibus; fibrillis tenerrimis, ramosis, sinuosis, radiantibus, epidermide umbonata semper tectis; peritheciis non observatis.

Hab. ad folia delapsa Ribis alpini in Gallia.

40. **Asteroma Virgiliæ** Rob. et Desm. 18 Not. p. 5. — Amphigenum; maculis numerosis, minutis, orbiculatis, castaneis vel rufis e fibrillis innatis, ramosis, radiantibus; ramis brevibus; peritheciis non observatis. 1240

Hab. in foliis siccis Virgiliæ luteæ cultæ in Gallia.

41. **Asteroma Betulæ** Rob. et Desm. Nouv. Not. (X.) p. 35. — Amphigenum maculiforme; fibrillis innatis, brunneis, ramosis e centro radiantibus; ramis numerosis, apice divergentibus; peritheciis erumpentibus, sparsis, minutissimis, nigris. 1241

Hab. in foliis deciduis Betulæ in Gallia et Belgio.

42. **Asteroma Castaneæ** Desm. 9 Nouv. Not. (X.) p. 34. — Epi- rarius hypophyllum; maculis brunneis; minutis, orbiculatis, sparsis, distinctis vel confluentibus; fibrillis innatis, tenuissimis, evanidis, vix conspicuis, ramosis e centro radiantibus; peritheciis numerosis, perexiguis, nigris, subnitidis, sparsis, quandoque circinantibus. 1242

Hab. in foliis vetustis Castaneæ in Gallia.

43. **Asteroma Capreæ** Desm. 14 Not. p. 34. — Epiphyllum; maculis magnis, irregularibus, fusco-fuligineis; fibrillis innatis, piceo-nigris, ramosis, e centro radiantibus; ramis numerosis, effusis, compressiusculis; peritheciis ignotis. 1243

Hab. in foliis languescentibus Salicis Capreæ in Gallia et Germania.

44. **Asteroma Salicis** Rob. et Desm. Nouv. Not. (X.) p. 35. — Epiphyllum; maculis cinereis vel plumbeis; fibrillis innatis, nigris, ramosis, e centro radiantibus; ramis brevioribus, divaricatis, subfastigiatis, apice compressiusculis dilatatis; peritheciis ignotis. 1244

Hab. ad folia decidua Salicis Capreæ, vitellinæ et albæ in Gallia, Belgio, Austria et Italia boreali.

45. **Asteroma Populi** Rob. et Desm. 14 Not. p. 35. — Epiphyllum; maculis nullis vel albidis, minutis, suborbiculatis, numerosis, sæpe confluentibus; fibrillis tenuissimis, brevibus, densis, ramosis, fusco-nigris, e centro radiantibus; peritheciis ignotis. 1245

Hab. in foliis siccis Populorum in Gallia, Belgio et Lusitania.

46. **Asteroma Populorum** Fuck. Symb. p. 384 (*Actinonema*), *Asteroma Populi* Desm.? — Peritheciis gregariis, *Sphærellæ punctiformis* magnitudine, hemisphæricis, astomis, nitidis, aterrimis; fibrillis tenuissimis, liberis, radiantibus, olivaceis; sporulis nondum visis. 1246

Hab. in foliis præcipue ad pag. sup. Populi Tremulæ in Rhenogovia.

47. **Asteroma angulatum** Desm. 24 Not. p. 14 (*Asterina*). — Amphigenum; maculis minutis, irregulariter rotundatis, angulatis, siccis griseo-cinereis, humidis brunneis, e fibrillis vix conspicuis, tenerrimis, ramosis, intricatis, subradiantibus, epidermide tectis; peritheciis ignotis. 1247

Hab. in foliis siccis Ulmi in Gallia.

48. **Asteroma Ulmi** Klotzsch, Cooke Handb. n. 1369. — Fibrillis tenerrimis, valde ramosis, radiantibus, subdichotomis flexuosis, macula brunnea insidentibus. 1248

Hab. in foliis vivis Ulmi campestris et scabræ in Britannia, Gallia, Lusitania. — A *Piggotia astroidea* (*Ast. Ulmi* Grev.) differre videtur. An diversum ab *A. maculari?*

49. **Asteroma maculare** Rud. in Linnæa IV. p. 117. — Epiphyllum maculiforme, fuscum; fibrillis in ambitu radiatis; peritheciis minutissimis, paucis. 1249

Hab. in foliis vivis Ulmi campestris in montibus Salisburgensibus.

B) In Dicotyledoneis herbaceis (cfr. *Ast. reticulatum*).

50. **Asteroma graphoides** Rob. et Desm. 24 Not. p. 16. — Epi- rarius hypophyllum et caulicolum; maculis minutis brunneis v. nullis; fibrillis prominulis, intense rufo-brunneis, ramosis e centro radiantibus; ramis divaricatis brevioribus; peritheciis ignotis. 1250

Hab. in foliis Stellariæ holosteæ in Gallia.

51. **Asteroma Gei** Fuck. Symb. p. 385. — Peritheciis in macula orbiculari, obscuriore, epiphylla numerosissimis, punctiformibus, hemisphæricis, papillatis, atris, in seriebus delicatissimis dispositis; sporulis pon visis. 1251

Hab. in foliis languidis Gei urbani in Rhenogovia.

52. **Asteroma Pæoniæ** West. Exs. n. 1050, Kickx Fl. Fl. I. p. 387. — Fibrillis innatis, griseo-brunneis, ramosis, divergentibus, maculas subcirculares v. confluendo irregulares in areolas subvinosas formantibus; peritheciis nigris, immersis (sterilibus). 1252

Hab. in pag. sup. foliorum Pæoniæ in Belgio.

53. **Asteroma Brassicæ** Chev. Fl. Par. p. 449. — Amphigenum; maculis pallide cærulescentibus cinctis; peritheciis ad centrum congestis, subprominulis atris. 1253

Hab. in foliis Brassicæ in Gallia et Germania.

54. **Asteroma Epilobii** Fr. Summa p. 425, *Dothidea Epilobii* Fr. S. M. II. p. 559. — Macula ambiente levigata, uniformi, picea; peritheciis sparsis prominulis. 1254

Hab. in caule Epilobii angustifolii in Gallia et Germania. — Maculæ subrotundo-difformes, determinatæ, 3–4 lin. longæ, passim confluentes, tenuissimæ, piceæ absque fibrillis, ubi sparsæ prominent cellulæ minutæ, inæquales, leves, albofarctæ, demum apice depressæ.

55. **Asteroma Ballotæ** Fuck. Symb. Myc. App. II. p. 82. — Peritheciis gregariis, minutis, aterrimis, superficialibus, irregularibus, astomis, in macula nigra fere totum caulem occupante; fibrillis delicatissimis, fuscis. 1255

Hab. in caule languido et sicco Ballotæ nigræ in Rhenogovia.

56. **Asteroma Fuckelii** Sacc., *Aster. maculare* Fuck. Symb. p. 285, nec Rud. — Peritheciis gregariis, subconfluentibus, globosis, in ostiolum conicum protractis, nitidis, aterrimis; fibrillis tenuissimis, repentibus, fuscis circumdatis. 1256

Hab. in caulibus emortuis Galeopsidis Tetrahit in Rhenogovia.

57. **Asteroma Prunellæ** Purt. Baxt. Ox. n. 79. — Epiphyllum; fibrillis nigricantibus, rectis, e perithecio conico vel paucis centralibus fasciculatim radiantibus. 1257

Hab. in pag. sup. foliorum vivorum Prunellæ vulgaris et hastifoliæ in Britannia, Belgio, Gallia, Lusitania. Habitus fere algæ *Hutchinsiæ* dictæ.

58. **Asteroma Robergii** Desm. Ann. Sc. Nat. 1840, XIII. pag. 181 (*Actinonema*). — Fibrillis ramosis; ramis paucis fusco-nigris (sub micr. olivaceis) articulatis, nodosis; articulis diametrum æquantibus vel 3-4-plo longioribus, basi 20 μ. cr.; peritheciis ignotis. 1258

Hab. in caule (sæpius interiore) Heraclei Sphondylii in Gallia et Germania. — Var. **Arundinariæ**. In ejusdem interiore culmo in Carolina infer. Amer. bor.

59. **Asteroma dilatatum** Berk. Crypt. antarct. p. 61, t. LXVIII. f. VII. — Superficiale; maculis ricciæformibus; lobis dilatatis e filamentis serpentibus approximatis in membranam congestis. 1259

Hab. in foliis Panacis simplicis in insulis Auckland.

60. **Asteroma Thümeni** Sacc., *Aster. Bupleuri* Thüm. Pilzfl. Sibir. n. 799, nec Sacc. et Roum. — Peritheciis densissime gregariis, hemisphæricis, minutis, sæpe confluentibus, nitido-atris, apice per- 1260

tusis, maculas striæformes, nervisequentes nigras efficiens; fibrillis tenuissimis, paucis, subramosis, griseis; sporulis ellipsoideis, utrinque rotundatis, simplicibus, griseis, sæpe nucleatis, 8 ≃ 4.

Hab. in foliis emortuis Bupleuri ranunculoidis in silvis frondosis humidis prope Patroschilowo Sibiriæ Asiaticæ.

61. **Asteroma Bupleuri** Sacc. et Roum. Mich. II. p. 369. — Amphi- 1261
genum, maculas latas, piceas, subcontinuas efformans; peritheciis creberrimis, lenticularibus, 80 μ. diam. (vacuis), hyphulis fuligineis conjunctis.

Hab. in foliis Bupleuri rigidi, Lozieres (Gard) Galliæ (Therry). — Status *Sphærellæ* — *Asteroma Roumeguerei* J. Kunze Exs. n. 238, in foliis Bupleuri falcati, Eisleben Germaniæ, mihi non diversum videtur.

62. **Asteroma vernicosum** (DC.) Fuck. Symb. p. 385. *Sphæria ver-* 1262
nicosa DC. Franc. VI. p. 138. — Macula levigata, nitida, nigra, margine radiosa; peritheciis centralibus, subconico-prominulis.

Hab. in caulibus Chærophylli, Heraclei, Spirææ Ulmariæ et Arunci in Gallia, Germania et Hungaria. — Macula sub lentibus optimis e fibris tenerrimis formata, margine tantum visibilibus; peritheciis in centro sparsis, convexis, subconicis, astomis. Cfr. Kalchbr. Szep. Gomb. p. 272.

63. **Asteroma Medusula** Dur. et Mont. Fl. Alg. I. p. 609. — Maculis 1263
primo orbiculatis, olivaceis, tandem piceis, e fibrillis innatis, flexuosis, centrifugis formatis; peritheciis inæqualibus, centrali majori; sporulis.....

Hab. ad caules Umbelliferarum v. gr. Ferulæ, Dauci, Fœniculi in Algeria (Durieu), Gallia australi (Roumeguère).

64. **Asteroma impressum** Fuck. Symb. App. II. p. 82. — Epiphyl- 1264
lum; fibrillis foliorum vivorum epidermidi impresso-adnatis, dichotomo-multipartitis, primariis latiusculis, ultimis tenuissimis, tuberculatis, atro-fuscis, maculas magnas castaneas vel rubidas formantibus; peritheciis (?) demum in foliis marcescentibus, numerosis, minutis, patellæformibus, nigris; sporulis nondum visis.

Hab. in foliis viventibus Tussilaginis Farfaræ, Ragaz Helvetiæ.

65. **Asteroma Cacaliæ** Desm. 16 Not. p. 348. — Epiphyllum; ma- 1265
culis nullis; fibrillis innatis, brunneo-rufis, connatis, membraniformibus, ramosis, irregulariter radiantibus; ramis divaricatis, apice cuneatis vel penicilliformibus; peritheciis ignotis.

Hab. in foliis Cacaliæ (Adenostylis) Petasites in Gallia, et Tussilaginis Farfaræ in Belgio.

66. **Asteroma atratum** Chev. Par. p. 449. — Maculis inæqualibus, fusco-atris; peritheciis minimis, undique stipatis, prominulis. 1266

Hab. in foliis Solidaginis Virgaureæ, et perfectius et speciosius in foliis Cacaliarum in Gallia (Mougeot et Chaillet). — Maculæ valde obscuræ, varie confluentes et indeterminatæ. Perithecia minima, prominula, admodum conferta, epiphylla, superficiem omnem macularem occupantia, sed non confluentia.

67. **Asteroma Trifolii** Grogn. Crypt. Saon. p. 127. — Maculis minutis, pallide brunneis, margine saturatioribus; fibrillis paucis, parum distinctis; peritheciis mediis, depressis, atrobrunneis. 1267

Hab. in foliis Trifolii in Gallia.

68. **Asteroma Orobi** Fuck. Symb. p. 386. — Peritheciis sparsis, minutis, dense dispositis, in fibrillis delicatissimis fuscis insidentibus. 1268

Hab. in foliis subvivis Orobi verni in Jura Helvetiæ et in Italia boreali.

69. **Asteroma Euphorbiæ** Fuck. Symb. p. 385. — Peritheciis minutissimis, dense congestis, atris, in fibrillarum ramosarum centro dispositis; sporulis non visis. 1269

Hab. in caulibus languidis Euphorbiæ Gerardianæ in Rhenogovia.

70. **Asteroma Gentianæ** Fuck. Symb. p. 386. — Fibrillis delicatis, ramosis, maculas magnas, fuscas formantibus; peritheciis sparsis, seriatis, subglobosis, aterrimis. 1270

Hab. in pag. inferiore foliorum Gentianæ luteæ in Jura Helvetiæ (Morthier).

71. **Asteroma latebrarum** Grogn. Crypt. Saon. p. 128. — Maculis parum distinctis, subochraceis; fibrillis copiosis, pallidis, parum conspicuis (contra lucem tamen evidentissimis); peritheciis brunneolis, raris. 1271

Hab. in foliis Violæ tricoloris arvensis in Gallia.

72. **Asteroma tenerrimum** Grogn. Crypt. Saon. p. 125. — Maculis brunneo-rubidis, dein griseo-olivaceis; fibrillis tenerrimis, brevibus, tortuosis, vix anastomoticis parumque radiantibus; peritheciis rotundatis, prominulis, majusculis, brunneo-opacis. 1272

Hab. in caulibus siccis Lilii pomponii in hortis Saone et Loire Galliæ. — Var. **Petroselini**: magis virens; peritheciis majoribus. — Var. **Iridis**: maculis brunneolis, vix distinctis; peritheciis nitidulis. — Var. **Aconiti**: maculis elongatis, brunneo-viola-

scentibus. — Var. **subparallelum** (Phlogis): maculis sordidis; fibrillis magis parallelis. — Var. **Gei**: fibrillis brevibus, brunneo-violascentibus. — Var. **Sambuci**: fibrillis brevibus; maculis minutis confertis, atris. — Var. **entogenum** (Centranthi): maculis cinereo-brunneis; fibrillis ut plurimum transversalibus confertis. — Var. **Tropæoli**: fibrillis elongatis, distinctis, brunneis; perithecciis depressis. — In caulibus plantarum citatarum in hortis Galliæ. Omnes varietates describuntur a Grognot l. c.

73. **Asteroma elegans** Rob. et Desm. 24 Not. p. 15 — Caulicolum; fibrillis laxe ramosis, brunneis, sinuosis, quandoque subinilatis a centro radiantibus; ramis ultimis brevibus; perithecciis ignotis. 1273

Hab. in caulibus exsiccatis Polygoni Persicariæ in Gallia.

C) In fructibus et gallis Dicotyledonum.

74. **Asteroma? Achenarum** Rob. et Desm. 17 Not. p. 27. — Fibrillis tenuissimis, ramosis, fusco-nigris, articulatis, articulis diametro æqualibus vel 2–3-plo longioribus. 1274

Hab. in acheniis Compositarum, præcipue Cirsii acaulis et Helianthi annui in Gallia.

75. **Asteroma pomarii** Grogn. Crypt. Saon. p. 127. — Maculis minutis, circularibus, rarius radiantibus reticulatisque, sordide nigris, vix granulosis. 1275

Hab. in pomis nondum putridis in pomariis Galliæ. (Mahieu)

76. **Asteroma incomptum** Rob. et Desm. 24 Not. p. 16–17. — Maculis griseo-brunneis, ovatis vel subelongatis; fibrillis tenerrimis, ramosissimis, sinuosis, subintricatis, epidermide tectis; perithecciis paucis, exilissimis, globosis, subnigris; sporulis ignotis. 1276

Hab. in fructibus siccis Fraxini in Gallia.

77. **Asteroma delicatulum** Desm. XIX. Not. p. 8. — Maculis minutis orbiculatis, quandoque confluentibus, humidis subolivaceis, siccis griseo-nigris; fibrillis innatis, tenerrimis, flexuosis, e centro radiantibus; ramis paucis elongatis, subdichotomis, articulatis, articulis diametro æqualibus; perithecciis minutissimis, sparsis globosis. 1277

Hab. ad legumina Coluteæ arborescentis in Gallia. — An forma in siliquis Lunariæ biennis, Coimbra Lusitaniæ, a Thümen citata huc vere spectet, nescio.

78. **Asteroma gallicolum** Desm. in Grogn. Crypt. Saon. p. 127. — Maculis nigris, densis, subcircularibus; fibrillis radiantibus, brevibus, confertis; perithecciis raris, exiguis. 1278

Hab. in gallis ad folia Fagi in Gallia.

D) In Monocotyledoneis (Cfr. *Asteroma tenerrimum* n. 72).

79. **Asteroma Angreci** Gall. et Feuill. Rev. Myc. V. p. 181. — Maculis epiphyllis, orbicularibus, nigris; fibrillis tenerrimis, $^1/_{10}$ mill. crass., radiatis; peritheciis punctiformibus, nigris, secus fibrillas seriatis (immaturis). 1279

Hab. in foliis Angreci fragrantis, Ile Bourbon (Jetique).

80. **Asteroma reticulatum** (DC.) Chev. Par. I. p. 447, *Sphæria reticulata* DC. Fl. Fr. VI. p. 138, *Dothidea* et *Cambosira reticulata* Fr., *Asteroma Polygonati* DC. — Epiphyllum, atrum; macula nulla; fibrillis liberis, longitudinaliter serpentibus, subramosis jungentibus perithecia subseriata. 1280

Hab. in foliis Convallariæ Polygonati et C. multifloræ in Gallia, Germania, Britannia, Italia, Sibiria, Lusitania: etiam in caulibus descendit, tum crescit in series longiores; sed simplices, strictas, interruptas, tuberculis rarioribus. — Var. **Eryngii** Desm. In foliis Eryngii campestris in Gallia.

81. **Asteroma venulosum** (Wallr.) Fuck. Symb. p. 384, *Sphæria venulosa* Wallr. Fl. Crypt. n. 3911. — Peritheciis microscopicis nigris, gregariis, adnatis, hemisphæricis, dein depressis centro obsolete papillato albis, basi fibrillulas stromaticas adpressas delicatissimas concolores peripliericas emittentibus, greges concentricas maculari-punctatas mentientibus. 1281

Hab. ad folia putria Sparganii ramosi in Germania. — Adsunt formæ in foliis Iridis Pseudacori in Italia bor., et Asphodeli ramosi in Lusitania.

82. **Asteroma immaculatum** Grogn. Crypt. Saon. p. 126. — Maculis obsoletis; fibrillis olivaceis, laxis, nodulosis; peritheciis brunneolis. 1282

Hab. in caulibus siccis Gladioli culti in Gallia.

83. **Asteroma Jucaginearum** Rabenh. D. Crypt. Fl. n. 1269, *Asteroma Calvadosii* Desm. 18 Not. p. 7. — Caulicolum et epiphyllum; maculis primo olivaceis, dein nigris, levigatis, subnitidis, ovatis vel elongatis; fibrillis piceis arcte applicatis, compressis, ramosis, centrifugis radiantibus; ramis rectis, fasciculatis; ramulis subpalmatis, quandoque fastigiatis; peritheciis minutis, sparsis. 1283

Hab. in scapis foliisque Triglochinis maritimi et palustris, Calvados Galliæ, in Belgio et Germania.

84. **Asteroma confusum** Grogn. Crypt. Saon. p. 128. — Ab *A. delicatulo* differt fibrillis magis confusis, minus ramosis, sed tamen intertextis; maculis fuscidulis, laxioribus. 1284

Hab. in foliis siccis Zeæ Maydis in Gallia.

85. **Asteroma Donacis** Grogn. Crypt. Saon. p. 127. — Maculis umbrinis, opacis; fibrillis brevibus, latiusculis, confertis, quandoque deficientibus; peritheciis mediis prominulis, atris. 1285

Hab. in foliis Arundinis Donacis in Gallia.

86. **Asteroma Graminis** West. Exs. n. 1051, Kickx Fl. Fl. I. p. 387. — Fibrillis adnatis, ramulosis, tenerrimis, maculas subrotundas olivaceas dein nigricantes formantibus; peritheciis perexiguis, nigris, sparsis. 1286

Hab. in vaginis culmisque Ammophilæ arenariæ et Zeæ Maydis, Ostende Belgii.

87. **Asteroma concinnum** Dur. et Mont. Fl. Alg. p. 610. — Maculis punctiformibus, nigris, sparsis, e fibrillis innatis radiantibus, confluenti-membranaceis, fuscis conflatis; peritheciis minutis, centro congestis, atris; sporulis..... 1287

Hab. ad basin culmorum Arundinis mauritanicæ, Mostaganem Algeriæ (Durieu).

E) In Acotyledoneis.

88. **Asteroma fugax** Rob. et Desm. 24 Not. p. 17. — Fungicolum, fugax; fibrillis ramosis, paucis, innatis, tenerrimis, brunneo-griseis a centro radiantibus; peritheciis ignotis. 1288

Hab. in peridiis Tulostomatis brumalis, Calvados Galliæ.

89. **Asteroma Equiseti** Grogn. Crypt. Saon. p. 128. — Fibrillis ut plurimum transverse positis, subtortuosis, elongatis; peritheciis minutis, depressis, levibus, tectis. 1289

Hab. in caulibus Equiseti in Gallia.

F) Species nomine tantum notæ.

90. **Asteroma Zeæ** West. Les Crypt. d. l. stat. natur. p. 319, Thüm. Contr. Lus. n. 627. 1290

Hab. in rachide spicarum feminearum Zeæ Maydis, Coimbra Lusitaniæ (M. Ferreira).

91. **Asteroma corallinum** Mont. in Lév. Ann. Sc. Nat. 1846, p. 284. 1291

Hab. ad folia Drymidis chilensis in Chili (Gay).

YPSILONIA Lèv. Ann. Sc. Nat. 1846, p. 284. (Etym. ab *Y*, ob formam sporularum). — Perithecia globosa minuta, sessilia, subiculo radiante imposita, ostiolo inconspicuo. Sporulæ elongatæ, furcatæ seu 3-radiatæ, hyalinæ. — Genus phyllogenum, *Asteromati* affine

sed sporulæ prorsus alienæ. Fries tamen (Summa p. 424) suspicatur s. d. sporulas mera basidia esse, sed habentur re vera in aliis generibus sporæ ramoso-radiatæ v. furcatæ.

1. **Ypsilonia cuspidata** Lèv. l. c. — Hypophylla; peritheciis gregariis, nigris, levibus, subiculi fibrillis simplicibus adnatis nigricantibus; sporulis elongatis, furcatis (ut Y), hyalinis, continuis, intus granulosis. 1292

Hab. ad pag. infer. foliorum Anonaceæ cujusdam, Manilla (Cuming). — Maculæ minutæ nigræ, 3–4 mill. latæ.

CICINNOBOLUS Ehrenb. Bot. Zeit. 1853. p. 16. (Etym. *Cicinnos*, cincinnus et *bolos*, jactus). *Ampelomyces* Ces. Bot. Zeit. 1852. p. 302. — Perithecia minima conica, oblonga vel subpiriformia, sæpe stipitellata, membranacea ochraceo-fusca, vertice pertusa, in *Oidiorum* hyphis parasitica (an ex his oriunda?). Sporulæ ovoideæ, continuæ, hyalinæ, longe cirrose expulsæ. — Spermogonia *Erysipharearum* videntur, sed plures nolunt.

1. **Cicinnobolus Cesatii** De Bary Morph. und Phys. d. Pilze p. 71. — Peritheciis mycelio Oidii Tuckeri et O. erysiphoidis innatis; hyphis propriis erectis, brevibus, articulatis, hyalinis vel fuscellis; peritheciis in hyphis acro-pleurogenis clavatis vel piriformibus, minimis, 25–35 = 9–15, contextu minute parenchymatico ochraceo-fuligineo, vertice pertusis: sporulis tereti-oblongis vel ovoideis, rectis curvulisve, utrinque rotundatis, hyalinis, 2,5–3 = 1, 1–2-guttulatis, in cirros longos exsilientibus. 1293

Hab. in Oidio Tuckeri et O. erysiphoide ad folia Vitis, Rhamni, Antirrhini, Humuli, Violæ, Lini, Mespili, Lycii, Isatidis, etc. etc. in Italia, Gallia, Germania, Lusitania, Britannia, Ægypto.

NEOTTIOSPORA Desm. X. Not. Crypt. p. 12. (Etym. *neottos* pullus v. *neottia* nidus, et *spora*). — Perithecia omnino immersa, sphærica, membranacea, ostiolo orbiculari v. irregulari aperta. Sporulæ oblongo-fusoideæ, apice penicillato-setulosæ, continuæ, hyalinæ.

1. **Neottiospora Caricum** Desm. X. Not. p. 12. *Dilophospora Caricum* (Desm.) Fuck. — Peritheciis immersis, epidermide atrata tectis, globosis; contextu parenchymatico olivaceo; nucleo roseo subgelatinoso; ostiolo orbiculari, lato, nigricante; sporulis fusoideis, 12–14 = 3, subhyalinis, 3–4-guttulatis, apice penicillum setularum 3–4 subinde furcatarum mox fluxile gerentibus. 1294

Hab. in foliis emortuis Caricis paludosæ, pendulæ, ripariæ etc. in Gallia, Italia, Britannia, Germania.

2. **Neottiospora coprophila** Speg. Mich. I. p. 481. — Peritheciis minutissimis, 80–70, globosis, astomis(?), irregulariter dehiscentibus, contextu densiusculo, parenchymatico-indistincto; sporulis oblongo-fusoideis, 25 = 3, utrinque acutiusculis, nubiloso-granuloso-farctis, hyalinis, sessilibus, apice tribus rostellis exilissimis, 20 = 1, ornatis. 1295

Hab. in fimo ovino vetusto in pratis circa Conegliano Italiæ bor., socia *Delitschia Winteri*.

SIROCOCCUS Preuss Fungi Hoyersw. n. 306. (Etym. *seiros*, catena et *coccos*). — Perithecia completa, subcarbonacea, erumpentia vel superficialia, sæpius subastoma. Sporulæ subglobosæ, catenulatæ e basidiis filiformibus oriundæ. — Quibus notis facile ab *Hormococco* et *Trullula* dignoscitur.

1. **Sirococcus conorum** Sacc. et Roum. Mich. II. p. 628. — Peritheciis gregariis subsuperficialibus, globoso-lenticularibus, $^1/_3$–$^1/_2$ mill. d., nigris, intus niveis, astomis, contextu minute parenchymatico, fuligineo; sporulis globosis, 2–$2^1/_1$ μ. d., 1-guttatis, hyalinis e basidiis cylindraceis, 20 = 2, hyalinis, catenulatim oriundis. 1296

Hab. in squamis conorum Abietis in Arduennis (Libert).

2. **Sirococcus strobilinus** Preuss Fungi Hoyersw. n. 306. — Peritheciis subdiffornibus, rotundatis, gregariis, simplicibus vel confluentibus, erumpentibus, atro-nitentibus; nucleo albo; basidiis furcatis, filiformi-clavatis, albis; sporulis fusiformibus, utrinque obtusis, albis, concatenatis. 1297

Hab. ad conos dejectos Pini Abietis, Hoyerswerda.

3. **Sirococcus cylindroides** Sacc. — Peritheciis gregariis, velatis, dein, epidermide secessa, superficialibus, globoso-conicis, dein collabascentibus, papillulatis, $^1/_3$–$^1/_2$ mill. diam., atris, duriusculis: sporulis in catenulas simplices vel parce ramosas, 50–60 μ. longas digestis, cylindricis, utrinque subtruncatis, 6–7 = 1.5, subhyalinis, ex basidiis sporomorphis, fasciculatis oriundis. 1298

Hab. in caule emortuo Adenostylis albifrontis in Jura prope Neuchatel, socia *Leptosphæria Nitschkei* Rehm (Mortier).

PECKIA Clinton in Rep. on the St. Mus. N. York. (Etym. a Peck, præclaro botanico Amer. bor.). — Perithecia carbonacea, globulosa, vix papillata, glabra. Sporulæ continuæ, hyalinæ vel sub-

hyalinæ in catenulas subinde ramosas digestæ, modo reticulatim connexæ, modo muco obvolutæ. — A *Myxormia* et *Hormococco* præsentia perithecii differt, sed a *Sirococco* vix distinguitur.

1. **Peckia Sarraceniæ** Peck et Clinton in Rep. of St. Mus. N. York. 1299
— Peritheciis sparsis vel in acervulos minutos subaggregatis, interdum macula nigricante insidentibus, minutis, leniter prominulis, nigris; catenulis sporularum reticulatim ramosis; sporulis oblongis, angustis, hyalinis, 7–8 μ. longis.

Hab. in foliis emortuis Sarraceniæ purpureæ, Buffalo Amer. bor. (Clinton).

2. **Peckia Clintonii** Peck in Rep. of St. Mus. N. York, t. 2, f. 6–9. 1300
— Peritheciis sparsis, in utraque folii pagina prominulis, levibus, nigris; sporularum catenulis muco obvolutis subinde lateraliter connexis; sporulis subcuboideis, hyalino-chlorinis, 5 μ. diam.

Hab. in foliis putrescentibus Smilacinæ trifoliæ, Buffalo Amer. bor. — Sporulæ sæpe plasmate diviso fœtæ.

MURICULARIA Sacc. Mich. I. p. 95 (Etym. a *murex* ob perithecia muricata). — Perithecia globosa, astoma, membranaceo-tenacella, superficialia, undique muriculata. Sporulæ variæ botuliformes, quandoque gibbosæ v. subramulosæ, hyalinæ. — An aptius ad *Nectrioideas* ducendum genus?

1. **Muricularia eurotioides** Sacc. l. c. et F. it. t. 94. — Peritheciis 1301
globosis, membranaceo-tenacellis, ex albo ochraceis, 100 μ. diam., undique aculeolos elongato-conoideos, 1-cellulares, ima basi annulato-subconstrictos, hyalinos gerentibus; perithecii contextu minute granuloso; sporulis copiosissimis e strato proligero tenui immediate oriundis, polymorphis nunc botuliformibus, nunc medio ventricosis, nunc subfurcatis, polis obtusiusculis, et 1-guttulatis, hyalinis, jodii ope intense cærulascentibus, strato proligero vero eadem ope intense flavescente.

Hab. in nidis vesparum putrescentibus, socio *Aspergillo virente*, Padova Ital. bor.

STAUROCHÆTA Sacc. F. Ven. Ser. IV. p. 40 (Etym. *stauros*, crux et *chæte*, seta). — Perithecia erumpenti-superficialia, membranacea v. carbonacea, sphæroidea, atra, subastoma, setis rigidulis, apice stellatis v. stellato-ramulosis undique obsita. Sporulæ ovoideæ v. oblongæ, continuæ, diaphanæ sed dilute fuscellæ. — Genus pulchellum setulis stellatis statim dignoscendum.

1. **Staurochæta minima** Sacc. Fung. Ven. Ser. IV. p. 40. — Perithe- 1302
ciis globulosis, vertice depressiusculis, sparsis, minutissimis, 1/7 circiter mill. diam., atris, setis divergentibus, 1-cellularibus, basi subincrassatis, apice stellatis h. e. radios 3-5 interdum ramulosos, patentes, acutos gerentibus, 50 μ. longis, 10 μ. crassis, obscure fuligineis, undique densiuscule obsitis; perithecii contextu distincte parenchymatico, monostromatico, fuligineo; sporulis ovoideis, 8–10 ≃ 4–5, dilute fuligineis, eguttulatis.

Hab. in ramis corticatis putrescentibus Ulmi campestris, Padova Ital. bor.

2. **Staurochæta membranacea** Cooke in Grevillea. — Gregaria; pe- 1303
ritheciis applanatis, 80 μ. diam., membranaceis, fuscis, supra hyphis septatis, furcatis, radiantibus ornatis; sporulis ovalibus, 12 ≃ 9-10, hyalino-fuscis, vix coloratis.

Hab. in gallis siccis Quercuum, Aiken in Carolina inferiori Americæ borealis (Ravenel).

PYRENOCHÆTA De Not. Micr. ital. Dec. V. pag. 15 (Etym. *pyren*, pyrenium seu perithecium et *chæte*, seta). — Perithecia globoso-conica, innato-erumpentia, membranacea v. subcarbonacea, nigra, ostiolo pertusa, setis rigidis (præcipue ad verticem) vestitis. Sporulæ continuæ, ovoideæ, oblongæ, v. cylindraceæ, continuæ, subhyalinæ, basidiis bacillaribus suffultæ.

1. **Pyrenochæta nobilis** De Not. Micr. ital. Dec. V. f. 9. — Perithe- 1304
ciis hypophyllis, ovoideis v. subglobosis, 1/4 mill. diam., innato-erumpentibus, vertice tenuato setisque rigidis, atris, longiusculis hirto; ostiolo circulari latiusculo; basidiis fasciculatis filiformibus alterne ramulosis, ramulis cylindricis, brevibus, diametro triplo longioribus; sporulis cylindricis hyalinis, utrinque obtusis, continuis e solutione ramulorum ortis.

Hab. in foliis dejectis Lauri nobilis, Genova Ital. bor., rarius — * **lignicola** Sacc. Mich. II. p. 276; peritheciis subsuperficialibus, globoso-conoideis, 1/4 mill. diam., subcarbonaceis, setulis fuligineis continuis, 110–120 ≃ 5–6 vestitis; sporulis allantoideis, 4 ≃ 1–1 1/4, hyalinis, basidiis vage vel verticillato-ramosis, acicularibus, 20–25 ≃ 1 suffultis. — In ramis decorticatis Alni glutinosæ, Selva Italiæ borealis.

2. **Pyrenochæta Stanhopeæ** Winter Contr. Myc. Lus. n. 793. — Pe- 1305
ritheciis amphigenis, erumpentibus, sine macula, gregariis sparsisve, atris, setis fuscis, sæpe flexuosis continuis obsitis; sporulis oblon-

gatis vel cylindraceis, utrinque rotundatis, continuis, guttulatis, hyalinis, 14-23 ≃ 4-7.

Hab. in foliis aridis Stanhopeæ eburneæ in horto botanico Coimbra Lusitaniæ.

3. **Pyrenochæta ferox** (De Not.) Sacc. *Sphæronæma ferox* De Not. Micr. ital. Dec. III. p. 12, t. IX. — Maculis in caule fuscescentibus; peritheciis, epidermide tectis, globoso-depressis, obtuse conoideis, fuscis, tenuibus, circa ostiolum latiusculum setulis rigidulis, plus minusve copiosis patentibus, pellucidis ornatis; sporulis cylindraceis utrinque obtusis, perlaceo-diaphanis, 8-9 ≃ 1-1,5, dein pulveraceo-erumpentibus. 1306

Hab. in caulibus Solani aliarumque herbarum in hortis Genova Italiæ borealis.

4. **Pyrenochæta vinosa** Sp. F. Argent. Pug. III. n. 102. — Perithe- 1307
ciis minutis, 100-120 μ. diam., macula latiuscula œnocyanica insidentibus, primo tectis, dein, epidermide secedente, superficialibus, globosis, ubique piloso-hirtellis, atris, coriaceo-carbonaceis, ostiolo impresso-pertusis; sporulis elliptico-fusoideis, utrinque acutiuscule rotundatis, 5-7 ≃ 2-2,5, hyalinis, 2-3-guttulatis.

Hab. ad folia caulesque emortua Eryngii agavifolii in paludosis à la Boca del Riachuelo, Argent. Amer. merid.

5. **Pyrenochæta seminicola** (B. et Br.) Sacc. *Sphæropsis seminicola* 1308
B. et Br. F. of Ceyl. n. 791. — Minuta, gregaria, libera, setis rigidis sparsa; sporulis oblongis, angustis, obtusis, 12 μ. longis.

Hab. in seminibus Artocarpi integrifoliæ, Peradeniya Ceylon.

6. **Pyrenochæta penicillata** Fuck. Symb. p. 378. — Perithecciis gre- 1309
gariis, primo tectis, dein liberis, globosis, vertice conicis, pilis concoloribus patentibus coronatis, semine *Papaveris* triplo minoribus, atris; sporulis cylindraceis, rectis, utrinque obtusis, continuis, 14 ≃ 4, hyalinis.

Hab. in caulibus Medicaginis sativæ in Italia bor. et Germania.

7. **Pyrenochæta acicola** (Lèv.) Sacc. *Vermicularia acicola* Lèv. Ann. 1310
Sc. Nat. 1848, p. 259. — Peritheciis gregariis, innatis, erumpentibus, subglobosis, intus extusque nigris, pilis divergentibus obsitis: sporulis minutissimis, ovatis, continuis, hyalinis.

Hab. ad folia decidua Pini silvestris in Vogesis.

8. **Pyrenochæta rhenana** Sacc. *Herpotrichiæ rhenanæ* spermogonium 1311
Fuck. Symb. p. 146. — Peritheciis sparsis gregariisve, subliberis,

globosis, rugulosis, pilis fuscis, decumbentibus repentibusque dense tectis, vertice applanatis, subglabris; sporulis cylindraceis, curvatis, minutis, hyalinis.

Hab. in caulibus putridis Urticæ dioicæ. Reichartshausen Germaniæ.

9. **Pyrenochæta hirta** Sacc. *Massariæ hirtæ* spermogonium Fuck. Symb. p. 155. — Peritheciis minutis, atris, pilis pallidioribus undique tectis, sub epidermide nidulantibus; sporulis oblongis, continuis, rectis, utrinque obtusis, hyalinis, 6 ≃ 2. 1312

Hab. in ramis corticatis Sambuci racemosæ in Rhenogovia.

10. **Pyrenochæta Erythrinæ** (Arc.) Sacc. *Phoma Erythrinæ* Arcang. Erb. Critt. It. Ser. II. n. 1380. — Peritheciis punctiformibus, gregariis v. sparsis, atris, margine conspicue setuligeris; sporulis elongatis, utrinque acutis v. apice rotundatis, sæpe curvulis hyalinis, guttulatis, 18-21 ≃ 4-5. 1313

Hab. in ramis emortuis Erythrinæ Cristæ-galli in horto botanico pisano (Arcangeli).

11. **Pyrenochæta exosporioides** Sacc. *Tricosphæriæ exosporioidis* spermogonium Fuck. Symb. p. 145. — Peritheciis minutissimis, superficialibus, aterrimis, globosis, basi pilis concoloribus, perithecio duplo longioribus cinctis; sporulis ellipticis, continuis, rectis, hyalinis, 10 ≃ 3. 1314

Hab. in foliis siccis languidisve Caricis glaucæ, Œstrich Germaniæ.

12. **Pyrenochæta Luzulæ** (West.) Sacc. *Vermicularia Luzulæ* West. Bull. Ac. Belg. Ser. 2, t. XII. n. 7, cum icone. — Peritheciis superficialibus, nigris, rotundatis, leniter applanatis, basi fibrillis ramosis insidentibus setisque rigidis, divergentibus, brevibus, nigro-brunneis, apice hyalinis obsitis, ostiolis piriformibus irregularibusque; sporulis hyalinis globulosis, 5 μ. diam. 1315

Hab. in foliis Luzulæ maximæ, Nassogne, Luxembourg.

13. **Pyrenochæta tarda** Sacc. *Trichosphæriæ tardæ* spermogonium Fuck. Symb. p. 145. — Peritheciis sparsis, seminis *Papaveris* magnitudine, globosis, undique strigoso-pilosis, olivaceo-fuscis, ostiolis minutissimis; sporulis copiosis, cylindraceis, rectis vel perparum curvatis, 4-guttulatis, 8 ≃ 2, hyalinis. 1316

Hab. in charta putri prope Œstrich Rhenogoviæ.

VERMICULARIA Fr. Summa V. S. p. 419, nec Tode (Etym. a *vermiculus*, ob sporulas sæpe cylindraceas). — Perithecia erumpentia

vel subsuperficialia, membranaceo-carbonacea, atra, globoso-conica, demum subinde concava, vertice pertusa vel astoma, setis longiusculis, rigidis, septatis, fuligineis vestita. Sporulæ typice cylindraceo-fusoideæ, sæpe inæquilaterales, continuæ, hyalinæ, basidiis variis suffultæ. — Genus ulterius explorandum; multæ enim adsunt species sporulis ignotis; nonnullæ perithecio imperfecto vel pezizoideo instructæ (et tunc ad *Colletotricha* vel *Excipulas* vergentes), dum plures perithecio perfectissimo utuntur; sporulæ quoque in paucis septatæ dicuntur, quod si exactum, a genere seponendæ species; nec desiderantur formæ (e. g. *V. relicina*) basidiis pleiosporis ornatæ.

I. *In Dicotyledoneis arboreis.*

A) Ramicolæ.

1. **Vermicularia compacta** C. et E. Grev. V. p. 54. — Peritheciis 1317
gregariis, hispidis, atris, distinctis, compactis; sporulis fusiformibus, curvulis, utrinque acutis, nucleatis, demum (spurie?) septatis, 20 μ. longis.

Hab. in sarmentis Vitis viniferæ, Rubi, et in caulibus Dahliæ, New Jersey Amer. bor.

2. **Vermicularia crassipila** Karst. Hedw. 1884. p. 61. — Peritheciis 1318
gregariis, cortici innatis, subsphæroideis, atratulis, contextu subcarbonaceo, vertice emergente setis strictis divergentibus, rigidis, obtusis, atris, brevibus, 45-90 ≃ 10-15, septatis obsessis, 200 μ. lat.; sporulis fusoideo-bacillaribus, curvulis, hyalinis, 18-27 ≃ 3.

Hab. in cortice Tiliæ ulmifoliæ in regione aboënsi, Merimasku Fenniæ.

3. **Vermicularia effusa** Schw. Syn. Amer. bor. n. 1850. — Peritheciis 1319
primum omnino tectis, sparsis, globoso-applanatis, demum confluentibus, epidermide orbatis, nigris, et in maculas late effusis; setis longis divergentibus, non valde nigris, confusis in macula, i. e. undique provenientibus.

Hab. rarius ad sarmenta corruptissima Ruborum, Bethlehem Amer. bor.

4. **Vermicularia Staphyleæ** Schw. Syn. Amer. bor. n. 1859. — Pe- 1320
ritheciis quasi applanatis subpezizoideis ex epidermide subcorrugata prorumpentibus; setis aterrimis, flexuosis, longis: perithecia acervata sunt.

Hab. gregatim in epidermide tenerorum ramorum Staphyleæ in America bor.

5. **Vermicularia Ephedræ** Dur. et Mont. in Herb., Sacc. in Revue Mycol. t. XIV. f. 8, Roum. Fungi Gallici n. 1027. — Peritheciis minutis, integris, setulis atro-fuligineis vestitis; sporulis obclavatis, 20-25 ≃ 3,5, basi subrotundatis, sursum attenuatis, obsolete 1-septatis, dilute olivaceis. 1321

Hab. in ramulis Ephedræ fragilis, Hussein Dey Algeriæ. — A generis typo nonnihil recedit.

6. **Vermicularia epixyla** Fr. Summa V. S. p. 420, sec. Kickx Fl. Fl. I. p. 404, nec *Sphœria Vermicularia* Nees, teste Fuckel. — Peritheciis innatis, superficialibus, minutis nigris, sparsis densis, numerosis, rotundatis vel subelongatis, convexis, setulis concoloribus sparsis rectisve obsitis, irregulariter pertusis; sporulis oblongis vel ovoideo-oblongis, acutis. 1322

Hab. in ligno denudato et semi-putrescente Abietis in Suecia, Belgio.

7. **Vermicularia grandis** Pass. et Beltr. F. Sic. n. 30. — Peritheciis globosis, atris, setis longis concoloribus acuminatis strigosis, apice rotundatis, sæpe calvis, cellulis minutis, subquadratis, seriatim dispositis, contextis; sporulis copiosissimis, sterigmatibus longis, setiformibus, hyalinis fultis, acervatim visis dilute olivaceis, singulis autem hyalinis, fusiformibus, simplicibus, rectis, 15 ≃ 3. 1323

Hab. in ramulis aridis suffruticis ignoti, Marianella Siciliæ.

B) Petioli-fructicolæ.

8. **Vermicularia petiolorum** Schw. Syn. Amer. bor. n. 1853. — Peritheciis sparsis, tectis aterrimis, parum elevatis, difformibus aut globoso-conicis, frequentissimis, interdum elongatis, augustatis; setis longissimis divergentibus. 1324

Hab. frequens in dejectis petiolis Æsculorum et Catalpæ, Bethlehem Amer. bor.

9. **Vermicularia Involucri** Schw. Syn. Amer. bor. n. 1862. — Minima, atra, plerumque globosa et valde elevata, basi constricta; peritheciis undique obsitis setis, breviusculis in ambitu, confluentibus, innatis interiori epidermidi. 1325

Hab. passim in interiori involucri Æsculi cultæ, Bethlehem.

10. **Vermicularia Grossulariæ** Fuck. Symb. Myc. p. 374. — Peritheciis (tuberculis) gregariis, minutis, in macula fusca, fusco-olivaceis, orbicularibus, pilis sterilibus, 3-4-septatis, atris, fertilibus seu basidiis hyalinis; sporulis curvatis, fusiformibus, 20 ≃ 4. 1326

Hab. in fructibus adhuc immaturis Ribis Grossulariæ, quos morte et lapsu afficit, in Rhenogovia.

11. **Vermicularia Amenti** Karst. Hedw. 1884, p. 61. — Peritheciis 1327
subsphæroideis, fusco-pallidis, 200 μ. lat. vertice setulis strictis, fuscis, 120 ≃ 6, obsessis, contextu parenchymatico; sporulis elongatis, curvulis vel rectis, hyalinis, 5–8 ≃ 1–1,5.

Hab. in capsulis emortuis Salicis phylicifoliæ ad Mustiala Fenniæ.

12. **Vermicularia rectispora** Cooke in Grevillea. — Sparsis: peri- 1328
theciis minimis, tectis, membranaceis, supra setis rigidis, septatis ornatis; sporulis linearibus, obtusis, hyalinis, 20 ≃ 3.

Hab. in petiolis Meliæ in Carolina inf. Amer. bor.

C) Foliicolæ.

13. **Vermicularia trichella** Fr. in Grev. Scot. Fl. t. 345 et Summa 1329
V. S. p. 420. — Sparsa: peritheciis ovatis, minimis, astomis, nigris, pilis longissimis divergentibus, vertice obsessis; sporulis fusoideis, curvulis, utrinque obtuse attenuatis. 16–25 ≃ 4–5, hyalino-nebulosis.

Hab. in foliis Hederæ, Piri, Mali, Salicum, Smilacis, Ari, Evonymi in Suecia, Britannia, Gallia, Germania, Italia, Belgio. — F. **pomona** Sacc. F. Ven. V. n. 279: sporulis 18–3,7–4. In foliis Mali in Italia. — F. **Castaneæ**: setis cuspidatis, 110–120 ≃ 8, septatis, fuligineis; sporulis stipitellatis, angustius fusoideis, 25–28 ≃ $2^1/_2$–3, nubilosis. In foliis Castaneæ in Gallia.

14. **Vermicularia carbonacea** B. et C. North Amer. Fungi n. 430bis. 1330
— Peritheciis diu nigerrimis punctiformibus in acervulos minutos: sporulis arcuate fusiformibus, obsolete triseptatis, 35–40 μ. longis.

Hab. in foliis Magnoliæ grandifloræ in Carolina infer. Amer. bor. — Perithecia setis basalibus cincta.

15. **Vermicularia albo-maculata** Schw. Syn. Amer. bor. n. 1858. — 1331
Maculis epiphyllis lacteis, latis (v. g. in foliis *Liriodendri* ubi margine fusco cinctæ sunt maculæ) aut minoribus (in foliis *Populi*) suborbiculatis, quibus insident perithecia, sparsa, conico-globosa, aterrima, setis tecta longiusculis, ceterum minutissima, oculo nudo vix distinguenda, subinnata.

Hab. in variis foliis dejectis v. c. Liriodendri, Populi, Smilacis, Bethlehem, Buffalo, Amer. bor.

16. **Vermicularia ambigua** Sacc. Mich. II. p. 271. — Peritheciis (spu- 1332
riis) laxe gregariis, innato-erumpentibus, globoso-depressis, $^1/_3$ mill. diam., atris, epidermide denique rupta cinctis; setulis cuspidatis.

90 ≃ 5–6, rigidulis, septatis, atro-fuligineis vestitis; basidiis intra setulas dense fasciculatis cylindricis, obtusiusculis, 50 ≃ 5, septulatis, pallide fuligineis; sporulis oblongis rectiusculis, 15–16 ≃ 6, deorsum subacutatis, granulosis, hyalinis.

Hab. in foliorum partibus arescentibus Cinnamomi dulcis in horto patavino. — Perithecio imperfecto, sporulis rectis etc. mox dignoscitur et ad *Colletotrichum* nutat.

17. **Vermicularia religiosa** Thüm. Contr. Myc. Lus. n. 416. — Peritheciis hypophyllis, gregariis, minimis, subglobosis, brevipilosis, aterrimis in macula irregulari, arescendo griseola, ferrugineo-cincta; sporulis numerosis, bacillaribus, utrinque obtusatis, subrectis, bi-triseptatis, hyalinis, 5 ≃ 1,5. 1333

Hab. in foliis vivis Ficus religiosæ, Coimbra Lusitaniæ in horto botanico (Moller).

18. **Vermicularia macrochæta** Desm. 9 Not. pag. 28. — Amphigena aggregata, atra, maculas nigras efficiens; peritheciis innato-prominulis, minutissimis, pilis paucis (7–5) validis, obtusis, opacis, divergentibus, ad verticem obsitis. 1334

Hab. in foliis coriaceis persistentibus Pruni lusitanicæ in Gallia et Belgio. — Sporulæ nondum observatæ.

19. **Vermicularia epiphylla** Schw. Syn. Amer. bor. n. 1856. — Peritheciis basi innatis, aut substantia folii immersis, demum erumpentibus, sparsis, juvenilibus subconicis, provectiori ætate rotundato-applanatis, minutis, aterrimis; setis subrigidis aut flaccidis concoloribus creberrime in toto perithecio sitis; crusta quadam albescente ex folio orta circumdata. 1335

Hab. rarius in aversa pagina foliorum putridorum, Bethlehem Americæ bor.

II. *In Dicotyledoneis herbaceis.*

A) Caulicolæ.

20. **Vermicularia Dematium** (Pers.) Fr. Summa V. S. p. 420, *Sphæria Dematium* Pers. Syn. p. 88. — Peritheciis (genuinis?) erumpenti-superficialibus, 80–120 μ. diam., conicis, dein depressis, astomis, atris, hispidulis, setulis rigidis, atris apice pallescentibus, parce septulatis, 150–200 ≃ 5, vestitis; sporulis cylindraceo-elongatis, 20 ≃ 4–5, utrinque rotundatis atque lateraliter acutato-angulatis, granuloso-farctis, hyalinis. 1336

Hab. in caulibus herbarum fere omnium, rarius petiolis foliisque e. g. Heraclei, Chærophylli, Conii, Angelicæ, So-

lani, Phytolaccæ, Clematidis, Chenopodii, Phlogis, Valerianæ, Loniceræ, Acerum, Salicum etc. etc. in Suecia, Britannia, Italia, Gallia, Germania, Belgio, Sibiria, America bor. et austr. — Var. **macrospora** Sacc. Mich.: sporulis curvo-fusoideis, 30 ≃ 4, pluriguttulatis, hyalinis, basidiis teretibus, 15 ≃ 3, obtusiusculis suffultis. In petiolis Æsculi Paviæ, Toulouse Galliæ. — Var. **samaricola** Sacc. Mich.: peritheciis solito majoribus; sporulis 20–22 ≃ 3½, pluriguttulatis, hyalinis. In samaris (exclusis alis) Fraxini in Gallia. — An in hac affinibusque speciebus verum perithecium adsit vel (ut cl. Fuckel mavult) merum tuberculum stromaticum exosporum, difficile eruitur, num pro varia ætate unum alterumque forte observetur.

21. **Vermicularia herbarum** West. Exs. n. 393, Kickx Fl. Flandr. I. p. 405. *Verm. Dianthi* West. sec. Kickx l. c. — Peritheciis laxiuscule gregariis, erumpenti-superficialibus, globoso-depressis, ½ mill. diam., nigris, setulis crebris rigidulis, inæqualibus, fuscis vestitis; sporulis cylindraceis, subrectis, utrinque obtuse rotundatis, 20–22 ≃ 3–4, granulosis, hyalinis. (Sec. West.: sporulis cylindraceis vel clavulatis, utrinque obtusiusculis vel acutiusculis et subinde lenissime curvulis). 1337

Hab. in caulibus et foliis putrescentibus Solani tuberosi, Dianthi barbati, superbi et sinensis, Sedi, Erythrinæ Cristæ-galli, Yuccæ gloriosæ in Belgio, Gallia, Africa austr. — A *Verm. Dematio* Fr., cui habitu affinis, differt sporulis rectis, obtusisque, nec falcatis. Longius distat a *Verm. atramentaria* B. et Br. (? = *Verm. maculanti* [Link] Desm.) ob perithecia majora et laxe sparsa.

22. **Vermicularia Geranii** West. Exs. n. 1239, Kickx Fl. crypt. Fl. I. p. 404. — Peritheciis innatis, minutis, nigris, sparsis, numerosis, ovalibus, oblongis vel elongatis, setulis concoloribus, sparsis, rectis obsitis, denique apice pertusis; sporulis elongato-oblongis vel ovali-elongatis acutis, rectis vel leniter curvatis, 10 ≃ 2,5. 1338

Hab. in caulibus siccis Geranii dissecti in Belgio.

23. **Vermicularia polytricha** Cooke Grev. XII. p. 24. — Erumpens, cupuliformis, strigosa, atra; setis dense congestis, erectis, rigidis, subulatis, glabris, atrofuscis; sporulis lanceolatis, lunatis, nucleatis, hyalinis, 30 ≃ 4. 1339

Hab. in caulibus Leguminosæ? (*Lima bean*) in Carolina australi.

24. **Vermicularia uncinata** B. et C. North Amer. Fungi n. 431. — 1340

Peritheciis distinctis, sparsis, hispidis; sporulis magnis hamatis, a basi attenuatis, 60 μ. longis, distincte tunicatis.

Hab. in caulibus Desmodii nudiflori in Amer. bor.

25. **Vermicularia truncata** Schw. Syn. Amer. bor. n. 1865. — Peri- 1341
theciis lineam vix excedentibus, nigris (in leguminibus majoribus), adnatis, confertis, hemisphæricis, horizontaliter truncatis in majoribus; in minoribus irregulariter conico-truncatis, rugulosis; setis filiformibus præsertim truncaturam occupantibus, divergentibus, longioribus, brevioribus immixtis; sæpe setæ caducæ sunt, ita ut perithecium orbetur.

Hab. in caulibus, sarmentis ac leguminibus Phaseolorum in hortis frequens, Bethlehem Amer. bor.

26. **Vermicularia Eryngii** (Corda) Fuck. Symb. p. 374, *Excipula Eryngii* Corda Icon. Fung. I. f. 294. — Peritheciis globoso-conicis depressis, 250–300 μ. diam., setulis levibus. 400 = 6-6,5, instructis, nigris; sporulis elongato-fusiformibus, hyalinis, 20–22 = 3–3,5 basidiis dense stipatis, hyalinis suffultis. 1342

Hab. in caulibus petiolisque Eryngii campestris in Italia bor., Germania, Lusitania.

27. **Vermicularia eupyrena** Sacc. Mich. II. p. 563. — Peritheciis laxe 1343
gregariis, hemisphæricis, $^1/_4$-$^1/_3$ mill. diam., integris, astomis, nigris, setulis cuspidatis, parce septatis, 110–120 = 3–5, fuligineis conspersis, contextu perithecii parenchymatico fuligineo; sporulis teretibus, rectiusculis, 20-26 = 4-1,5, bi-quadriguttulatis, utrinque subrotundatis, hyalinis; basidiis fasciculatis, bacillaribus, 30 = 5, dilute fuligineis, guttulatis.

Hab. in caule denique decorticato emortuo Solani tuberosi, Forni di Zoldo, Ital. bor. (Bizzozero). — Perithecia prorsus integra, nec more generis late aperta.

28. **Vermicularia orthospora** Sacc. et Roum. Mich. II. pag. 630. — 1344
Peritheciis erumpenti-superficialibus, globoso-conicis, atris, setis cuspidatis ubique vestitis; sporulis teretiusculis, utrinque subrotundatis, subrectis, 22 = 4, continuis, hyalinis.

Hab. in caule Solani tuberosi in Arduennis (Libert).

29. **Vermicularia atramentaria** B. et Br. Ann. N. H. n. 430. — Ef- 1345
fusa, gregaria, atra, maculiformis; peritheciis minutis superne setulis longis rectis, basi vero fibris repentibus, subepidermicis cinctis; sporulis minutis, cylindraceis, brevibus, utrinque nucleatis, (plasmate utrinque retracto, Berk.).

Hab. in caulibus Solani tuberosi in Britannia, Italia, Gal-

lia, Belgio, Germania. — *Verm. maculans* (Link) Fr. Summa V. S. p. 420, Kickx Fl. Fl. I. p. 405, valde affinis est, nisi eadem ac *Verm. atramentaria* B. et Br.

30. **Vermicularia maculans** (Link) Desm. Exs. n. 339, *Exosporium maculans* Link Sp. plant. Fung. II. p. 123. — Peritheciis innatis, minutis, aggregatis, dein confluentibus et matricem nigrificantibus, rotundatis, applanatis, setulis concoloribus, sparsis, fasciculatis, apicem versus attenuatis, divaricatis obsitis, denique apice hiantibus; sporulis (paucis) elongatis vel oblongis, rectis, subobtusis. 1346

Hab. in caulibus plantarum herbacearum, præcipue Solani tuberosi et Urticæ urentis in Gallia et Belgio.

31. **Vermicularia minuta** (Link) Lib. exs. cent. IV. n. 350, Kickx Fl. Fl. I. p. 404, *Exosporium minutum* Link Sp. pl. Fung. II. p. 122. — Peritheciis innatis, erumpentibus, minutis, punctiformibus, sparsis, plerumque rotundatis, setulis sparsis, concoloribus, rectis, brevibus obsitis, denique apice poriformi pertusis; nucleo albo; sporulis fusiformibus, leviter curvatis. 1347

Hab. in caulibus herbaceis variis in Suecia, Germania, Belgio, Gallia. — An satis diversa a *Verm. Dematio?*

32. **Vermicularia Chenopodii** West. Bull. Ac. rog. belg. 2, Ser. t. XII, n. 19, exs. n. 1238. — Peritheciis nigro-brunneis, emersis, rotundatis, minutis, sparsis, innatis, setulis fragilibus, brunneis, brevibus et raris obsitis, ostiolo irregulari; sporulis hyalinis, fusiformibus, leviter curvatis, frequenter medio (spurie?) uniseptatis, 10 ≃ 2,5. 1348

Hab. in caule Chenopodii viridis in Belgio. — Sec. Kickx vix diversa a *Verm. minuta.*

33. **Vermicularia hypodermia** (Link) Fr. Summa p. 420, *Exosporium hypodermium* Link Sp. pl. Fung. II. p. 121. — Peritheciis oblongis, sæpe confluentibus, epidermide rupta cinctis, atris; setis elongatis, filiformibus, distantibus, atris. 1349

Hab. in caulibus siccis Umbelliferarum in Silesia Germaniæ.

34. **Vermicularia subglabra** C. et Harkn Grev. 1880, p. 6. — Sparsa, epidermide nigrificata tecta; peritheciis subapplanatis, aliis glabris, aliis pilis sparsis brevibus cristatis; sporulis lunatis, hyalinis, trinucleatis, 20 μ. longis. 1350

Hab. in caulibus Helianthi in California Amer. bor.

35. **Vermicularia venturioidea** C. et Ell. in Grevillea. — Gregaria; peritheciis primum tectis, demum detectis, subglobosis, brunneis, supra pilis atris, rigidis ornatis; sporulis fusiformibus, curvatis, hyalinis, nucleatis, 30 ≃ 3,5. 1351

Hab. in caulibus Lactucæ elongatæ, New Jersey Americæ borealis.

36. **Vermicularia phyllostictoidea** Speg. F. Argent. Pug. IV. n. 281. — Maculis parvulis, 0,5–1 mill. diam., amphigenis, determinatis, candidis, areola latiuscula fulvo-rufescenti cinctis; peritheciis epiphyllis, paucis centralibus, minutis, 70–80 μ. diam., hemisphæricis erumpentibus, contextu parenchymatico, olivaceo-fuligineo, ostiolo lato, impresso pertusis, setulis nonnullis rigidulis, atris, erectis, 30–70 ≃ 4–5, basi non vel vix incrassatis coronatis; sporulis cylindraceo-elongatis, utrinque lateraliter rotundato-acutatis, 16–17 ≃ 3, granuloso-farctis, hyalinis. 1352

Hab. ad folia viva Solidaginis linearifoliæ in herbosis prope Pueblo Lavalle Argentinæ.

37. **Vermicularia Arctii** Schw. Syn. Amer. bor. n. 1860. — Sparsa vel aggregata, epidermide innata; peritheciis polymorphis atris, semper applanatis; setis densissime longis, immixtis brevibus, undique divergentibus. 1353

Hab. rarius in caulibus Arctii Lappæ, Bethlehem Am. bor.

38. **Vermicularia Silphii** Schw. Syn. Amer. bor. n. 1851. — Peritheciis oblongis subrotundisve, obtusis, valde applanatis; confluentibus, aggregatis in macula expallente, nigris, tectis; setis frequentibus, brevibus, atris, prorumpentibus ex epidermide. 1354

Hab. frequens in caulibus Silphii culti in horto Nazareth Americæ bor.

39. **Vermicularia Balsamitæ** Schw. Syn. Amer. bor. n. 1852. — Peritheciis innatis rotundatis, parum elevatis, truncato-applanatis, aterrimis, interdum difformibus; setis breviusculis concoloribus, plerumque sitis quasi in margine truncaturæ nec alibi. 1355

Hab. rarius in caulibus Impatientis Balsamitæ, maculas formans, Bethlehem Amer. bor.

40. **Vermicularia Polygoni-virginici** Schw. Syn. Amer. bor. n. 1848. — Peritheciis sparsis, innatis, nigrosplendentibus vix confluentibus, utrinque arcte acuminatis, centro ex basi latiusculo, valde elevato-conico; setis brevibus in apice collectis. 1356

Hab. in caulibus Polygoni virginici, Bethlehem Am. bor.

41. **Vermicularia ovata** Schw. Syn. Amer. bor. n. 1863. — Peritheciis aggregatis, aterrimis, primum erumpentibus, demum superficialibus, majusculis, ovatis, applanato-truncatis; setis filiformibus crebris divergentibus et in disco subpezizoideo truncaturæ frequentibus. Refert primo obtutu pezizulam nigram. 1357

Hab. in caulibus plantarum in hortis Nazareth et in caulibus Ruelliæ strepentis in Pensylvania.

42. **Vermicularia Gerardiæ** Schw. Syn. Amer. bor. n. 1857. — Aterrima, irregularis; peritheciis primum globoso-difformibus, parum elevatis, demum longitudinaliter effusis; setis inæqualibus undique divergentibus, interdum longissimis, rigidis, pulvere quasi adspersis. 1358

Hab. in exsoletis stipitibus Gerardiæ quercifoliæ, Bethlehem Americæ bor.

43. **Vermicularia Ipomæarum** Schw. Syn. Amer. bor. n. 1845. — Peritheciis sparsis, globosis, majusculis, nigris absque nitore, ex epidermide erumpentibus, demum disco truncato; setis in apice truncato, densis, subcinerescentibus, altitudinem perithecii æquantibus. 1359

Hab. frequens in caulibus Ipomææ coccineæ, purpureæ etc. Bethlehem Amer. bor.

44. **Vermicularia angustata** Schw. Syn. Amer. bor. n. 1849. — Peritheciis aggregatis in maculas nigras, angustato-elongatis, confluentibus, epidermide omnino tectis; setis solummodo per rimulas epidermidis prorumpentibus, longiusculis nigris rectis, demum divergentibus. 1360

Hab. in tenerrimis ramulis Catalpæ frigore emortuis, Bethlehem Amer. bor.

45. **Vermicularia scandentium** Schw. Syn. Amer. bor. n. 1864. — Peritheciis minutissimis, atro-nitidis, prorumpentibus, plerumque longitudinaliter compressis, tamen utrinque attenuatis aut acuminatis, juniori ætate nudis, in ambitu sæpe fuscescentibus; demum setis parcis filiformibus divergentibus, in cacumine tantum sitis coronata. 1361

Hab. in caulibus scandentibus v. c. Galii Aparines, Bethlehem Amer. bor. — «Sed vero *Galium Aparine* vix scandit».

46. **Vermicularia subeffigurata** Schw. Syn. Amer. bor. n. 1843. — Primum tecta sub tenera epidermide et more Sphæriarum cum ea assurgens; peritheciis majusculis, quamquam punctiformibus, sparsis; demum denudata, multo major evadit; peritheciis quodammodo in plagis effiguratis, colore aterrimo insignibus collectis, subelevatis, apice applanatis, numerosis, interdum late confluentibus; setis inæqualibus, aterrimis, æquantibus altitudine perithecium, rectis, præsertim in apice conspicuis; plagæ occurrunt biunciales, semiunciam latæ, distinctæ in ambitu filis basilaribus dothidineis radiantibus. 1362

Hab. frequens in variis caulibus Bethlehem Amer. bor., mire

varians. — Var. **scapincola**: frequens in scapis Yuccæ filamentosæ hinc quasi reticulatis: fere semper simplex et sphæriomorpha. — Var. **dianthicola**: vulgatissima in caulibus Dianthi sinensis et aliorum distincta colore aterrimo et magnitudine insigni peritheciorum. — Var. **Impatientis**: in caule Impatientis fulvæ. — Var. **Helianthi**: versus radicem in caulibus maximis Helianthi annui var. giganteæ.

47. **Vermicularia ovata** Schw. Syn. Amer. bor. n. 1863. — Perithe- 1363
ciis aggregatis, aterrimis, primum erumpentibus, demum superficialibus, majusculis, ovatis, applanato-truncatis, setis filiformibus crebris divergentibus et in disco subpezizoideo truncaturæ frequentibus. Refert primo obtutu pezizulam nigram.

Hab. in caulibus plantarum ignotarum in hortis Nazareth Americæ borealis.

B) Foliicolæ.

48. **Vermicularia coptina** Peck in Rep. on the St. Mus. N. York. — 1364
Peritheciis minutis, leniter prominulis, nigris, vertice setis divergentibus, 1-2-septatis coronatis; sporulis curvulis, utrinque acutis, hyalinis, 20 ≃ 2,5-3.

Hab. in foliis emortuis vel subvivis Coptidis trifoliæ, Buffalo, Sandlake, Sandy Creek Amer. bor.

49. **Vermicularia punctiformis** Niessl. Hedw. 1881, p. 46. — Peri- 1365
theciis punctiformibus, atris, setulosis; sporulis oblongis, subrectis, medio (spurie?) septatis, subhyalinis, 12 ≃ 3-4.

Hab. in foliis Oxalidis strictæ et corniculatæ in horto botanico Calcutta Indiæ. — An huc spectet *Verm. punctiformis* Fr. Summa p. 420, nullibi descripta, omnino latet.

50. **Vermicularia Siphonis** Thüm. Fung. Litor. n. 155, tab. I. fig. 2. 1366
— Peritheciis epiphyllis, punctiformibus, gregariis, prominulis, minutis, atris; sporulis plus minusve cylindraceis, quinque sexnucleatis, utrinque rotundatis, simplicibus, hyalinis, 16 ≃ 4.

Hab. ad folia arida Aristolochiæ Siphonis, Gorizia Italiæ bor.

51. **Vermicularia Mercurialis** West. 5. Not. pag. 24. — Peritheciis 1367
amphigenis, minutissimis, rotundatis, nigris, sparsis, innatis, pilis rigidis divergentibus, 30-40 μ. longis obsitis; ostiolo irregulari; sporulis hyalinis, cylindricis, apicibus rotundatis, rectis, 7,5 ≃ 2, quandoque spurie 1-septatis.

Hab. in foliis Mercurialis perennis circa Mons in Belgio.

C) Fructicolæ.

52. **Vermicularia Wallrothii** Sacc. Fungi Veneti novi vel critici Ser. V. p. 199, *Fusarium Chætomium* Wallr. Flor. Cr. Germ. II. p. 242. — Peritheciis (genuinis?) subglobosis obtusis, subsuperficialibus, nigris; setis cuspidatis, 150–200 ≃ 6–7, atro-brunneis (ita ut septa ægre conspiciantur), apice hyalinis obvallatis; sporulis copiosissimis, falcatis, utrinque acutis, 25–28 ≃ 3–3 1/2, granuloso-farctis, hyalinis. 1368

Hab. in epicarpio Cucurbitæ lagenariæ putri in Germania; Selva et Padova Italiæ bor.

53. **Vermicularia Cucurbitæ** Cooke Hedw. 1878, p. 38, Grev. t. 99, fig. 10. — Peritheciis globosis, membranaceis, gregariis, hinc illinc circinatis, pilis rigidis brunneis obsitis; sporulis aliis linearibus, minutis, 15 ≃ 3, aliis (?) lanceolatis, acuminatis, triseptatis, hyalinis, 50 ≃ 5. 1369

Hab. in fructibus Cucurbitæ, Aiken in Carolina inf. Am. bor.

III. *In Monocotyledoneis.*

54. **Vermicularia Colchici** Fuck. Symb. p. 111, et 374. — Peritheciis laxe gregariis, punctiformibus, ovato-conicis vel depressis, atro-nitidis, vertice brevissime parce penicillatis; sporulis fusiformibus, curvatis, uniseptatis, hyalinis. 1370

Hab. in foliis languidis Colchici autumnalis in Rhenogovia. — Forma **Bromeliæ**: in foliis ejusdem in Gallia.

55. **Vermicularia Peckii** Sacc. *Verm. concentrica* Peck et Cooke Rep. on the St. Mus. N. York, non Lèv. — Peritheciis minutis, nigris, setulis rectis, rigidis, conspersis, in maculis arescentibus, subcircularibus concentrice dispositis; sporulis oblongis, leniter curvulis, utrinque acutis, 20–25 μ. longis. 1371

Hab. in foliis vivis Trillii erythrocarpi, Pine Valley Amer. bor. (Clinton). — Folia demum ad maculas perforantur. — Var. **Violæ rotundifoliæ**: peritheciis inordinate sparsis, æque phyllogenis. In America boreali.

56. **Vermicularia concentrica** Lèv. Ann. Sc. Nat. 1845, pag. 66. — Gregaria; peritheciis minimis, setosis, nigris, in series concentricas ordinatis, intus albis; sporulis cylindraceis, continuis, hyalinis. 1372

Hab. in foliis Dracænæ umbraculiferæ in insula Mascaren.

57. **Vermicularia Liliaceorum** Schw. Syn. Amer. bor. n. 1844. — Peritheciis plerumque sparsis, primum tectis, innatis, atro-splendenti- 1373

bus, subrotundis vel ellipticis, rarius confluentibus; centro elevato, coronato setis longis, filiformibus undique divergentibus; ceterum perithecium nudum; fibrillis basilaribus radiantibus.

Hab. frequens in caulibus Hemerocallidis, Allii et aliarum Liliacearum, Bethlehem Amer. bor.

58. **Vermicularia Liliacearum** West. Fl. Bat. Fung. II. p. 113. — 1374
Peritheciis innatis, minutis, sparsis, nitidis, rotundatis vel ovalibus, convexis, pilis tenuibus obsitis, dein vertice nudo poriformi apertis; sporulis cylindricis, utrinque attenuatis, hyalinis, plus vel minus curvatis, 20 ≃ 5.

Hab. in caulibus emortuis Scillæ nutantis, Ornithogali pyrenaici, Triglochinis, Gladioli, Asphodeli, nec non in scapis Amaryllidis Belladonnæ, Iridis, Convallariæ in Gallia, Italia, Belgio, Germania. — Verisimiliter non diversa a *Verm. Liliacearum* Schw. Subinde perithecia vere obsoleta, et tunc potius *Calletotrichum*.

59. **Vermicularia Schœnoprasi** Auersw. et Fuck. Symb. p. 110, Sacc. 1375
Mich. II. p. 631. — Peritheciis gregariis, erumpentibus, minutis, aterrimis, obtuse conicis, vertice pilis sparsis, fuligineis, 90–100 ≃ 7–8; sporulis tereti-fusoideis, leniter curvis, 25–28 ≃ 3–4, continuis, hyalinis, stipitellatis.

Hab. in foliis squamisque bulborum Allii Schœnoprasi in Germania et Gallia. — Sporulæ, teste Fuckel, septatæ, quales ipse non vidi.

60. **Vermicularia circinans** Berk. Gard. Chron. 1851, p. 595. — Ma- 1376
culis orbicularibus; peritheciis concentrice dispositis, mycelio radiante articulato hyalino impositis, minutissimis, setis rigidis, longis ornatis; sporulis oblongis, leniter curvis, utrinque obtuse attenuatis, 2-pluri-nucleatis, hyalinis.

Hab. in scapis, foliis bulborumque squamis Allii Cæpæ in Britannia, Italia, Pensylvania.

61. **Vermicularia oblonga** Desm. 11 Not. p. 363. — Peritheciis inna- 1377
tis, sparsis, numerosis, minutis, atris, subnitidis, ovatis v. oblongo-lanciformibus usque 1 mill. long., apice pertusis; setis fasciculatis, concoloribus tectis; sporulis curvatis, oblongis, utrinque acutis, subfusiformibus, 16–17 μ. longis.

Hab. in caulibus siccis Tami communis in Gallia.

62. **Vermicularia acuminata** Schw. Syn. Amer. bor. n. 1846. — Pe- 1378
ritheciis sparsis, epidermide tectis, utrinque acuminatis, ellipticis,

centro elevato, nigro-nitentibus; setis paucis longis, subrectis, in apice sitis, inæqualibus nigris: rarius confluunt.

Hab. in foliis et scapis Iridis virginicæ, Bethlehem Americæ bor.

63. **Vermicularia Polygonati** Schw. Syn. Amer. bor. n. 1847. — Peritheciis e globoso-conicis, manifestim truncatis, nigris, vix nitentibus, sparsis, innatis, demum subliberis; setis in truncatura sparsis, erectis, rigidis, filiformibus. 1379

Hab. passim in corruptissimis caulibus Polygonati, Bethlehem Americæ bor.

64. **Vermicularia relicina** Fr. Summa V. S. p. 420 (ut opinor), Sacc. Mich. II. p. 270, *Sphæria relicina* Fr. S. M. II. p. 505. — Peritheciis sparsis, globoso-depressis, nigris; setis rigidulis, atro-fuligineis, obsolete septulatis, 200-300 ≃ 7-10, quandoque sursum bifidis vestitis; sporulis tereti-arcuatis, utrinque obtusiusculis, 10 ≃ 1½, hyalinis, denticulis lateralibus basidiorum bacillarium, 80-90 ≃ 1½, hyalinorum hærentibus. 1380

Hab. in culmis putridis Zeæ Maydis et aliarum Gramineærum in Suecia, Italia boreali et Germania. — A generis typo ob fabricam basidiorum alienam non parum recedit.

65. **Vermicularia culmifraga** Fr. Summa V. S. p. 420. — Minuta, difformis, erumpens, setis erectis, confertis, septatis obsessa; sporulis fusoideis, septatis (?), *Verm. relicinæ* duplo majoribus. 1381

Hab. in culmis in Suecia.

66. **Vermicularia denudata** Schw. Syn. Amer. bor. n. 1855. — Peritheciis sparsis, atris, maximis pro ratione culmi teneri, punctiformibus, rotundatis, innatis sed demum erumpentibus, satis elevatis, subtruncatis, rugosis; setis brevibus, deciduis (quod singulare). 1382

Hab. in culmis et foliis Poarum etc., Bethlehem Amer. bor.

67. **Vermicularia Melicæ** Fuck. Symb. Myc. App. II. p. 81. — Peritheciis in maculis decoloratis, fusco-limitatis, demum in foliis aridis lineari-dispositis sparsisve, punctiformibus, nigris, pilis strigosis, simplicibus, concoloribus, 100 μ. long. obsitis; sporidiis fusiformibus, curvatis, utrinque acuminatis, 1-septatis, hyalinis, 26 ≃ 4-5. 1383

Hab. in foliis vivis siccisque Melicæ uniflorae in Rhenogovia.

68. **Vermicularia punctans** Schw. Syn. Amer. bor. n. 1854. — Peritheciis sparsis, innatis, numquam confluentibus, in pagina superiore folii pezizoideis; setis in inferiore pagina conspicuis, brevibus, sparsis, atris, densis, in perithecio punctiformi, rotundo-applanato aut orbiculato. 1384

Hab. rarius in foliis Andropogonis avenacei, Bethlehem Americæ bor.

69. **Vermicularia graminicola** West. Bull. Ac. roy. belg. Ser. 2. t. XII. n. 7. — Peritheciis innatis, minutissimis, sparsis, brunneis, rotundatis, pilis sparsis, brunneis obsitis; sporulis hyalinis, fusiformibus, rectis vel leviter curvis, utrinque attenuatis, 2-3-4-guttulatis, 30 ≃ 5. 1385

Hab. in foliis Poæ sudeticæ in prov. Luxembourg (Crepin).

70. **Vermicularia culmigena** Desm. 11 Not. p. 363, Mich. II. p. 98. — Peritheciis nigris, minutissimis, innatis, in lineas ovato-oblongas longitudinaliter parallele seriatis; setulis epidermidem perforantibus brevibus; sporulis cylindraceis, utrinque obtuse attenuatis, plus vel minus curvatis, 9-11 ≃ 1,5-2, pluriguttulatis, hyalinis. 1386

Hab. in foliis graminum ex. gr. Dactylidis, Phlei etc. in Belgio, Gallia, Pensylvania.

IV. *In Acotyledoneis.*

71. **Vermicularia filicina** Schw. Syn. Amer. bor. n. 1861. — Peritheciis aggregatis, frequenter in macula rubescenti aut expallenti, applanatis, ovalibus, tectis, nigris, prorumpentibus centro elevato; setis brevibus aut longiusculis, fusco-nigris, subsparsis in apice applanato; sæpissime inveniuntur perithecia setis omnino orbata. 1387

Hab. ad caudices Osmundæ et Onocleæ exoletos, Bethlehem Amer. bor.

72. **Vermicularia thecicola** Schw. Syn. Amer. bor. n. 1842. — Peritheciis minutis difformibus, interdum longitudinaliter confluentibus, subnitentibus, innatis, aterrimis; setis longiusculis aterrimis, demum densis, sed longitudine inæquali, longioribus divergentibus; peritheciis apice concaviusculis. 1388

Hab. rarissima species in thecis exoletis Dicrani scoparii, Salem Amer. bor.

V. *Species indescripta.*

73. **Vermicularia protracta** Fr. Summa Veg. Scand. p. 420. — Ad sarmenta Periclymeni in Suecia. 1389

DOTHIORELLA Sacc. Mich. II. p. 5, (Etym. a *Dothiora*, cui analogum genus), *Dothiora* Berk. Outl. p. 316, non Fuck., *Dothiopsis* Karst p. p. — Perithecia erumpentia in stromate basilari botryose aggregata, vel subinde stromate pulvinato immersa, globulosa, plus

minus papillata, coriaceo-membranacea. Sporulæ ovoideæ vel oblongæ, continuæ, hyalinæ, sæpius stipitellatæ. — Habitus *Botryosphæriæ*, cujus spermogonia habenda sunt. *Dothiora pyrenophora* Berk. et *sphærioides* Berk., sec. Cooke et Capron, *Botryodiplodiam* spectant.

I. *Species minores.*

1. **Dothiorella gregaria** Sacc. Mich. II. p. 343, *Doth. Berengeriana* Sacc. in Rev. Mycol. 1880, p. 190, ex errore, nec Mich. II. p. 271. — Peritheciis subcutaneo-erumpentibus, in acervulos hinc inde aggregatis vel gregariis, intus pallidis; sporulis oblongo-fusoideis, 18–22 ≃ 6–6½, nubilosis, hyalinis, basidiis acicularibus, 25–30 ≃ 3, suffultis. 1390

Hab. in ramis corticatis Populi canadensis, Corni, Salicis etc. in Gallia et Italia. — Forte pycnidium *Physalosporæ gregariæ* Sacc.

2. **Dothiorella Ribis** (Fuck.) Sacc. *Podosporium Ribis* Fuck. Symb. Myc. p. 205, t. I. f. 27, *Diaporthes Strumellæ* status spermog. — Peritheciis 1–6, aggregatis, in stromate nidulantibus, seminis *Papaveris* magnitudine, globosis, perforatis, atris, semper tectis, pustulas valde prominulas formantibus, demum evacuatis; sporulis pedicellatis, dein liberis, ovato-oblongis, sæpe curvatis, simplicibus, 30 ≃ 14, hyalinis, ut massa candida expulsis. 1391

Hab. in ramulis exsiccatis Ribis nigri, Grossulariæ, rubri, alpini, floridi in Germania.

3. **Dothiorella fraxinea** Sacc. et Roum. Reliq. Lib. IV. n. 90. — Peritheciis cæspitoso-erumpentibus globulosis, ¼ mill. diam., vix papillatis, atris; nucleo albido-griseo; sporulis oblongo-ellipsoideis, utrinque obtusiusculis, 12 ≃ 5, hyalinis; basidiis non visis. 1392

Hab. in cortice Fraxini in Arduennis (Libert). — Forte huc spectat *Sphæropsis Fraxini* Lamb. Fl. Myc. Belg. II., quæ lecta est in ramis Fraxini prope Liege Belgii.

4. **Dothiorella Liriodendri** (Cooke) Sacc. Cfr. Syll. I. p. 465. — Peritheciis in stromata applanata rimose erumpentia dense aggregatis, albo-farctis, vix papillatis; sporulis oblongo-fusoideis, 30 ≃ 5, granuloso-hyalinis, breve stipitatis. 1393

Hab. in cortice Liriodendri, Aiken in Carolina inf. Americæ bor.

5. **Dothiorella Betulæ** (Preuss) Sacc. *Sphærocista Betulæ* Pr. Fungi Hoyersw. n. 44. — Gregaria erumpens; peritheciis corneis, supra 1394

incrassatis, atris; ostiolo perforato; nucleo albo, mucoso; cirro albo; basidiis filiformibus, albis; sporulis elongatis, albis, continuis.

Hab. in cortice Betulæ, Hoyerswerda.

6. **Dothiorella populnea** Thüm. Pilzfl. Sibir. n. 791. — Peritheciis botryose bi-triaggregatis, sparsis, globulosis, erumpentibus v. exsertis, fere liberis, submagnis, durissimis, nigrescentibus; sporulis simplicibus, brevi-cylindraceis, utrinque rotundato-truncatis, enucleatis, hyalinis, 3,5 ≃ 1,5, numerosissimis. 1395

Hab. in cortice vetusto Populi Tremulæ prope Minussinsk Sibiriæ asiaticæ.

7. **Dothiorella populea** Sacc. Mich. I. p. 358 (sub *Phoma*). — Botryosphærioides; peritheciis hinc inde aggregatis, innato-erumpentibus, globulosis, minutis, nigris, vix papillatis; sporulis obovoideis, 10 ≃ 7, apice rotundatis, nubilosis, hyalinis, (basidiis nullis visis). 1396

Hab. in ramis corticatis Populi fastigiatæ prope Alençon in Gallia (C. C. Gillet).

8. **Dothiorella excavata** (Preuss) Sacc. *Sphærocista excavata* Preuss F. Hoyersw. n. 43. — Pustulis gregariis, minutis, hemisphæricis; peritheciis nigris, pulpa alba; basidiis filiformibus; sporulis minutis, oblongis, utrinque rotundatis, hyalinis, albis. 1397

Hab. in cortice Kerriæ japonicæ, Hoyerswerda.

9. **Dothiorella stromatica** (Preuss) Sacc. *Sphærocista stromatica* Pr. F. Hoyersw. n. 37. — Erumpens; stromate elato verruciformi, tumido, diviso-lobato sive composito, corneo, humido subgelatinoso, intus fusco; partibus apice subrotundis levibus, subnitidis; peritheciis ovatis, in apice perforatis; nucleo albido pulposo; cirro albo, expulso; basidiis continuis, ramosis, longis; sporulis oblongis, minutissimis, albis. 1398

Hab. ad ramos Pruni Cerasi transversim insidens, Hoyerswerda.

10. **Dothiorella sorbina** Karst Symb. Myc. Fenn. XV. pag. 154. — Peritheciis cortici innatis, erumpentibus, cæspitosis, obovoideis vel rotundatis, sæpe inæqualibus, vertice subinde depressis, astomis, interdum ostiolo papillato donatis, aterrimis, 0,3 mill. diam.; sporulis fusoideo-elongatis, rectis, eguttulatis, hyalinis, 3–5 ≃ 0,3. 1399

Hab. in cortice ramorum exsiccatorum Sorbi aucupariæ prope Vasa in Fennia.

11. **Dothiorella multiplex** (Preuss) Sacc. *Sphærocista multiplex* Pr. F. Hoyersw. n. 38. — Composita, carnosa, basi stromati connata, supra in ramos subæquales apice tumidos diffusa; peritheciis ex- 1400

tremis insertis; ostiolo perforato; basidiis longis, filiformibus; sporulis continuis, oblongis, albis; pulpa sporarum in cirros expulsa.

Hab. in cortice Sorbi aucupariæ, Hoyerswerda.

12. **Dothiorella cæspitosa** (Preuss) Sacc. *Sphærocista cæspitosa* Pr. F. Hoyersw. n. 42. — Erumpens; stromate elato verruciformi, diviso-lobato sive composito, atro, corneo, humido subgelatinoso, intus fusco, seu atro-fusco; partibus apice conicis, levibus, subnitidis, dein collapsis; peritheciis perforatis, ovatis, incanis; nucleo pulposo albido; cirro longo, albo expulso; basidiis continuis, filiformibus; sporulis oblongis, minutis, albis. 1401

Hab. in cortice Sorbi aucupariæ emortuæ, Hoyerswerda. — «An *Sphæria cæspitosa* Tode?».

13. **Dothiorella pithyophila** Sacc. et Penz. Mich. II. p. 619. — Cæspitulis cortice fisso erumpentibus vel in cortice interiore subsuperficialibus, pulvinatis, depressis, 1–2 mill. diam., intus et extus nigricantibus, superficie (e peritheciis densis minutis) verruculosis; sporulis cylindraceis, utrinque rotundatis, rectiusculis, 7–10 ≃ 2,8, hyalinis; basidiis dense fasciculatis, brevibus, bacillaribus e strato prolifero crassiusculo subalbo oriundis. 1402

Hab. in parte interiore corticis Pinorum, Le Sapey (Isère) Galliæ (Therry). — Videtur forma peculiaris *Fusicocci bacillaris*.

14. **Dothiorella Berengeriana** Sacc. Mich. II. p. 271. — Peritheciis cæspitoso-aggregatis, vere botryosphæroideis, globoso-applanatis, intus albis, ostiolis indistinctis; sporulis cylindraceis, utrinque obtusiusculis, rectis vel leniter curvis, 6 ≃ 1–2, hyalinis, basidiis filiformibus fasciculatis suffultis. 1403

Hab. in ramis Rhamni Frangulæ, Sophoræ, Castaneæ, Mori, Tiliæ in Italia boreali, Gallia et Germania. — Forma **Syringæ**: acervulis minoribus; sporulis crassioribus, 6–8 ≃ 3–4. In Arduennis. — Spermog. videtur *Botryosphæriæ Berengerianæ*.

15. **Dothiorella pyrenophora** (Karst.) Sacc. *Dothiora pyrenophora* Karst. Symb. Myc. Fenn. XIII. p. 9 et forte Fr. p. p. — Peritheciis dense pulvinato-cæspitosis, basi stromatica fultis, erumpentibus, globulosis, inæqualibus, intus pallidis; sporulis ovalibus, 3–5 ≃ 1, 5–2, hyalinis. 1404

Hab. in ramis Sorbi aucupariæ in tota Fennia et Lapponia. — ***D. Mali** Karst. l. c.: sporulis paulo majoribus, 6–10 ≃ 3. In ramis Mali, Mustiala. — ***D. Betulæ** Karst l. c.: stromatibus sporulisque, quam in typo, paulo majoribus. In ramis Betulæ ibidem. — ***D. Juniperi** Karst l. c.: stromatibus minoribus; sporulis

ovoideis vel obovato-ellipsoideis, utrinque attenuatis, 4-6 ≃ 2-3. In fructibus Juniperi communis ibidem. — ***D. Salicis** Karst l. c.: stromatibus epidermide lacerata tectis, minoribus; sporulis 4-8 ≃ 1-3. In ramis Salicis prope Jakobstad et Kola. — «An tota cum formis species satis diversa a mea *D. Berengeriana?* Jam monui *D. pyrenophoram* Berk. esse, sec. Cooke, *Botryodiplodiam*».

16. **Dothiorella Syringæ** (Karst) Sacc. *Dothiora Syringæ* Karst Hedw. 1884, p. 21. — Stromatibus confertis, seriatim dispositis, nonnumquam subconfluentibus, per corticem erumpentibus, applanatis, forma varia, ut plurimum angulato-rotundatis vel angulato-oblongatis, brevibus, nudis, nigris, siccis admodum duris, latis usque ad 1 mill. diam.; sporulis ovoideis vel ovalibus, simplicibus, hyalinis, 4-6 ≃ 3 μ. diam. 1405

Hab. in ramis emortuis Syringæ vulgaris prope Aboam Fenniæ.

17. **Dothiorella aterrima** (Fuck.) Sacc. Cfr. Syll. I. p. 458. — Stromatibus corticalibus, atris, orbicularibus, subplanis, corrugatis, loculis intus albis subglobosis; sporulis oblique fusoideis stipitatis, 48 ≃ 8, hyalinis. 1406

Hab. in rimis corticis Ulmi campestris in Rhenogovia.

18. **Dothiorella macrospora** (B. et C.) Sacc. *Sphæropsis macrospora* B. et C. North Am. F. n. 413. — Peritheciis in massam communem deplanatam congestis; sporulis elongatis subfusiformibus, subinæquilateris v. subclavatis, eguttatis, 25-35 μ. longis. 1407

Hab. in ramis Sambuci canadensis et Coriariæ myrtifoliæ in Pensylvania, Magnoliæ glaucæ in Alabama.

19. **Dothiorella Placenta** (B. et C.) Sacc. *Sphæropsis Placenta* B. et C. Cub. Fungi n. 561. — Stromate placentiformi undulato papilloso; sporulis obovatis hyalinis, 15 μ. longis, sporophoris æquilongis. 1408

Hab. in cortice Aurantiorum in insula Cuba. — Affinis *D. undulatæ* sed minor et magis regularis.

20. **Dothiorella Tulasnei** Sacc. Cfr. Tul. Sel. Carp. III. t. XX, f. 16-18. — Stromatibus e basi contracta alte pulvinatis, (ex ostiolis prominulis) rugosis, nigro-virentibus, intus pallidioribus; peritheciis copiosis ovoideis, peripheriis, intus albis; sporulis exiguis cylindraceis, utrinque obtusiusculis, 3,5-5 ≃ 1, hyalinis; basidiis filiformibus 16 μ. longis, fasciculato-ramosis. 1409

Hab. in ligno quercino, socio *Chlorosplenio æruginoso*, cu-

jus sec. Tulasne esset spermogonium; sed mihi nimis absonum videtur formam compositam peritheciophoram ad discomycetem simplicem spectare.

21. **Dothiorella advena** Sacc. Mich. II. p. 620. — Peritheciis in cæ- 1410
spites dothideaceos nigros collectis, globulosis, vix papillatis, intus albis, erumpentibus; sporulis elongato-fusoideis, 50 ≃ 8–10, rectiusculis, nubilosis, hyalinis, basidiis bacillaribus, 30–35 ≃ $1^1/_2$, suffultis.

Hab. in ramis corticatis quercinis in Italia, Gallia, Germania. — Spermogonium *Botryosphæriæ advenæ.*

22. **Dothiorella quercina** (C. et Ell.) Sacc. *Sphæropsis quercina* C. 1411
et Ell. Grev. V. p. 32. — Peritheciis cæspitoso-congestis, erumpentibus, epidermide cinctis; sporulis ovoideis v. ellipsoideis, granulosis, majusculis, 20–40 ≃ 12–20, crasse pedunculatis.

Hab. in ramis Quercus albæ et luteæ, New Jersey Amer. bor. — Habitus fere Diatrypes. — An diversa a *Dothiorella advena* Sacc.?

23. **Dothiorella glandulosa** (Cooke) Sacc. *Sphæropsis glandulosa* Cooke 1412
Hedw. 1878, p. 38, Grevill. t. 99, f. 9. — Acervulis erumpentibus, diatrypeformibus, multicellulosis, atris, elongato-fissis; sporulis lanceolatis v. clavatis, hyalinis, 30 ≃ 6.

Hab. in cortice Ailanthi glandulosæ, in Carolina Amer. borealis (Ravenel).

24. **Dothiorella lentiformis** (Pr.) Sacc. *Sphærocista lentiformis* Pr. 1413
F. Hoyersw. n. 311. — Peritheciis tenuibus, biconvexis, minutis, subconfertis, papillatis nullis, sub myelostromate elongatis conceptis, tum ostiolis perforatis; nucleo albo, mucoso; basidiis filiformibus; sporulis fusiformibus, obtusis, varie magnis, albis, guttulis oleosis plurimis repletis.

Hab. in lignis exsiccatis, Hoyerswerda.

25. **Dothiorella torulosa** (B. et C.) Sacc. *Sphæropsis torulosa* B. et 1414
C. North Am. Fungi n. 418 (bis). — Peritheciis in pustulas parvas mammiformes rugosas congestis, epidermide cinctis; sporulis ellipticis apiculatis, sporophoris torulosis, 10–13 ≃ 9–10.

Hab. in corticibus, New England Amer. bor. (Sprague). — Basidia apice subinde subtriangula indeque trispora.

26. **Dothiorella undulata** (B. et C.) Sacc. *Sphæropsis undulata* B. et 1415
C. Cub. Fungi n. 560. — Stromate nigro suborbiculari undulato, apicibus peritheciorum papilloso; sporulis obovatis magnis, hyalinis, 30–33 μ. longis.

Hab. in corticibus emortuis in Cuba. *Hypocream* fere imitatur. — Species homonyma in B. et Br. F. of. Ceyl. n. 789 (in corticibus in insula Ceylon) differre videtur, nam sporulæ ibi describuntur: 14–17 ≃ 7–10.

27. **Dothiorella Juniperi** (Fr.) Sacc. *Sphæria Juniperi* Fr. S. M. II. p. 366 Sacc. Syll. II. pag. 372. *Dothiopsis Juniperi* (Fr.) Karst. Hedw. 1884, pag. 20. — Erumpens, oblonga; peritheciis globosis ostiolisque prominentibus nigris, furfure albo tectis; sporulis cylindraceis, utrinque obtusis, rectiusculis, continuis, hyalinis, 12 ≃ 2. 1416

Hab. in cortice interiore Juniperi in Suecia, Gallia, Fennia. 1417

28. **Dothiorella pithya** Sacc. F. Ven. Ser. IV. pag. 5. — Peritheciis, stromati pulvinato, 1–2 mill. diam., subimmersis, nucleo albo, contextu botryosphæriaceo; sporulis oblongis, 12 ≃ 6–7, rarius 18–20 ≃ 6, granulosis, hyalinis, stipitellatis.

Hab. in cortice ramorum Pini Strobi et Abietis in agro tarvisino et patavino Ital. bor.

29. **Dothiorella latitans** (Fr.) Sacc. *Dothiopsis latitans* (Fr.) Karst. Hedw. 1884, p. 20. *Phyllachora latitans* (Fr.) Sacc. Syll. II. p. 610. — Immersa, epidermide lacerata tecta, stromate fusco-atro, loculis immersis albis; sporulis cylindraceis, rectiusculis, utrinque obtusis, 12–13 ≃ 2. 1418

Hab. ad folia sicca nigrificata Vaccinii Vitis-idææ in Suecia et Fennia. — An *Fusicoccum?*

30. **Dothiorella? Pinastri** (Fr.) Sacc. *Dothidea Pinastri* Fr. Elench. II. p. 123. — Erumpens, epidermide lacerata cincta, oblongo-difformis, atra; ostiolis umbilicatis; cellulis difformibus hyalinis; sporulis subcylindricis, rectis, continuis. 1419

Hab. in foliis deciduis Pini silvestris in Suecia et Belgio. — Spermogonium videtur *Phacidii laceri* Fr. — In foliis delapsis exsiccatis in ramulis ad terram locis udis dejectis adhuc persistentibus et stramineo-pallentibus observantur plagæ determinate griseæ et carie quasi fortius corrosæ (non vero circumscriptæ), in quibus per epidermidem fere tegentem erumpunt tubercula minuta, oblongo-difformia, atra, opaca, ex ostiolis in superficie inæqualibus, intus fusco-atris, quibus transversim sectis in conspectum veniunt cellulæ forma variæ, nucleo hyalino fuscescente farctæ, magis fluxili, quam in reliquis.

31. **Dothiorella congesta** (Lév.) Sacc. *Sphæropsis congesta* Lév. Ann. Sc. Nat. p. 62. — Hypophylla erumpens; peritheciis fasciculato- 1420

cæspitosis, elongatis, rugulosis nigris, nucleo albo, ostiolis crassis obtusis, nitidis; sporulis elliptico-oblongis, continuis, hyalinis.

Hab. in foliis Podocarpi in Capite Bonæ Spei Afr. (Drege),

32. **Dothiorella Euphorbii** Sacc. F. Ven. Ser. IV. p. 5. (*Botryosphæria*). — Peritheciis cæspitosis v. subsparsis, erumpentibus, nucleo albo, contextu botryosphæriceo; sporulis cylindraceis 10 ≃ 1½ rectis, hyalinis, 2-guttulatis, basidiis filiformibus, 18 ≃ 1, aduncis suffultis. 1421

Hab. in caule Euphorbiæ Cacti putrescente in horto botanico patavino.

33. **Dothiorella botrya** Sacc. Mich. II. p. 145. — Peritheciis hinc inde aggregatis, subcutaneo-erumpentibus, globulosis vix papillatis, nigris, 110-120 μ. diam., intus albis; sporulis fusoideo-oblongis, utrinque obtusiusculis, 28-32 ≃ 6-7, varie guttulatis hyalinis, basidiis filiformibus dimidio brevioribus suffultis, nec non paraphysibus (?) filiformibus longioribus obvallatis. 1422

Hab. in ramis corticatis Manfoth carthagenensis in Carolina austr. Amer. bor. (Ravenel).

34. **Dothiorella Galegæ** Sacc. F. Ven. Ser. IV. p. 5 (*Botryosphæria*). — Peritheciis tectis sparsis, nucleo albo, hyphis fuligineis repentibus cinctis, contextu botryosphæriaceo; sporulis fusoideis, hyalinis, 25 ≃ 6-8, initio stipitellatis. 1423

Hab. in caulibus Galegæ officinalis in Ital. bor. — Peraffinis *Doth. gregariæ.*

35. **Dothiorella botryosphærioides** Sacc. Mich. I. p. 145. — Peritheciis hinc inde dense aggregatis, globulosis, obtusis, 100 μ. diam., subcutaneo-erumpentibus, atris, intus pallidis, contextu luteo-fuligineo, parenchymatico; sporulis ovoideo-oblongis, 8 ≃ 3, minute 2-guttulatis, hyalinis, basidiis brevissimis suffultis. 1424

Hab. in caule Gossypii in Carolina infer. Americæ borealis (Ravenel).

36. **Dothiorella erumpens** (B. et C.) Sacc. *Sphæropsis scripta* B. et C. Exot. Fungi p. 280. — Erumpens, pulvinata, subcarnosa, 2 mill. cr., nigra, superficie corrugata; peritheciis globosis, brevicollibus, ostiolo obsoleto; sporulis late oblongis, hyalinis, breve stipitatis, 20 μ. longis. 1425

Hab. in corticibus e crustis lichenum erumpens, Surinam.

II. *Hydnopsis* Tul. Stromate globuloso, majusculo.

37. **Dothiorella** (Hydnopsis) **Eugeniæ** Tul. Sel. F. C. III. pag. 26. — 1426

Stromate globoso, avellanam æquante, sæpe rimoso, deformi, intus extusque atro, tuberculis pyramidatis seu tetra-pentagonis (tuberis ad instar) exasperato, intus ad superficiem cavernuloso-locellato venisque albidis ad basim variegato; sporulis ovoideis, hyalinis, utrinque obtusis, 13–15 ≃ 5,6–6,4; basidiis e parietibus cavernularum ortis cylindraceis, continuis, 15–20 μ. longis.

Hab. in ramulorum gemmis et pedunculis hinc deformatis et abortivis Eugeniæ Bridgesii in Chile, ubi fungus singularis *Pitra* audit. — Species altera *Hydnopsis graminicola* Tulasneo l. c. p, 28, in culmis gramineis in Nova Granada obveniens, stroma præbet globulosum, solidum, pisum æquans, extus aculeolatum et conidiophorum (conidiis sphæricis, aureis, 3,5 μ. diam.), at sporulæ hucusque ignotæ.

RABENHORSTIA Fr. Summa Veg. Scand. p. 410 (Etym. a sollerti meritissimoque cryptogamista germanico *L. Rabenhorst*). *Galeraicta* Preuss F. Hoyersw. n. 46. *Spilobolus* Link p. p. — Stroma erumpens globoso-truncatum, intus locellatum, coriaceo-carbonaceum, apice sæpe circumscissum et cum cortice secedens. Sporulæ ovoideo-oblongæ, continuæ, hyalinæ, stipitatæ. — Spermogonium *Hercosporæ*.

1. **Rabenhorstia Tiliæ** Fr. Summa p. 410. *Sphæria Tiliæ* Fr. S. M. II. p. 485 p. p. *Sphæria subsecreta* Sow. — Stromatibus sparsis, globoso-truncatis, levibus nigris, erumpentibus, intus pluriloculatis pallidioribus, disco emergente, inæquali, crasso truncato nigro; sporulis ellipsoideis, 12–14 ≃ 8, nubilosis, hyalinis; basidiis filiformibus fasciculatis, 60 ≃ 1½. 1427

Hab. in ramis Tiliæ europææ in Gallia, Britannia, Italia, Germania, Belgio. — Pycnidium *Hercosporæ Tiliæ*.

2. **Rabenhorstia conica** (Pr.) Sacc. *Galeraicta conica* Pr. F. Hoyersw. n. 46. — Pustulis minutis, gregariis, conicis, nigris; stromate carnoso, interne albo, centro subcolumelliformi apicem operculatum dejiciente, perithecio simplici, nigro, ostiolo centrali; cirro albo; basidiis minutis, filiformibus, continuis; sporulis subfusiformibus, utrinque rotundatis, subcurvatis, minutis, albis. 1428

Hab. in cortice emortuis Cytisi Laburni in hortis Hoyerswerda.

3. **Rabenhorstia rudis** Fr. Summa p. 410. *Sphæria rudis* Fr. Elench. II. pag. 98. — Conferta, crusta effusa ambiente nigra; stromatibus conico-hemisphæricis v. breve turriformibus, obtusis, initio 1429

tectis, dein epidermide rupta subcircumscissis, nunc minoribus sub-1-locularibus, nunc majoribus labyrintheo-locellatis, sæpe fusco-villosulis, fuligineo-nigris, nucleo albido-roseo; sporulis subovato-oblongis, utrinque obtusis, 6–8 ≃ 2–3, biguttatis; basidiis filiformibus, 20 μ. longis.

Hab. in ramis Cytisi Laburni in Gallia, Germania, Italia, Britannia. — *Diplodia rudis* Desm. et Kickx penitus diversa est; sed *Phoma rudis* Sacc. forte nil est nisi forma minor sub-1-locularis.

4. **Rabenhorstia deformis** (Fr.?) Karst. Hedw. 1884, p. 58. — Stromatibus gregariis, innatis, sphæroideo-depressis vel pulvinatis, emergentibus, bullas corticales efficientibus; ostiolo erumpente, plus minus elongato, atro, 1–2 μ. lat.; sporulis botuliformibus 4–6 ≃ 1–1,5. 1430

Hab. in libro et sub cortice Piceæ excelsæ prope Wasam Fenniæ.

Species dubiæ.

5. **Rabenhorstia clandestina** Fr. Summa p. 410. *Sphæria clandestina* Fr. Cfr. Sylloge II. p. 419. 1431
6. **Rabenhorstia personata** Fr. Summa p. 410. *Sphæria personata* Fr. Cfr. Sylloge II. p. 418. 1432
7. **Rabenhorstia adpressa** Fr. Summa p. 410 (sine diagnosi). In Suecia boreali. 1433

FUCKELIA Bon. Abhandl. p. 135 (Etym. a præclaro mycologo L. Fuckel). — Stromata erumpentia globoso-pulvinata, basi stipitiformi crassa, sed brevi suffulta, solida extus fusca, intus in locellos angulosos copiosos pallidiores (*Tuberis* ad instar) ubique partita. Sporulæ ellipsoideæ, continuæ, hyalinæ, stipitatæ.

1. **Fuckelia Ribis** Bon. Abhandl. p. 135. Karst. Myc. Fenn. I. p. 215–216. — Stromatibus v. conceptaculis subsphæroideis, glabris, fulvo-nigrescentibus, rugosis, solidis, intus in locellos angulosos numerosissimos partitis; sporulis ovoideo-oblongis, 8 ≃ 4, crasse 2-guttatis simulateque 1-septatis, hyalinis. 1434

Hab. in ramis Ribis rubri, nigri et petræi in Germania, Gallia, Fennia. — Est spermogonium *Cenangii ribesii.*

PLACOSPHÆRIA Sacc. Mich. II. p. 115 (Etym. *plax* tabula, crusta, et *Sphæria*). — Stromata effusa atra epidermide sæpe velata, intus distincte v. obsolete locellata. Sporulæ oblongæ, fusoideæ v. cy-

lindraceæ, continuæ, typice stipitellatæ. — Quum nomen Notarisianum *Placosphæriæ*, Euryachoræ synonymum sit, indeque supervacaneum, ad ejusdem *Euryachoræ* spermogonium designandum limitare propono.

1. **Placosphæria Galii** Sacc. *Mazzantiæ Galii* spermog. Mont. Syll. p. 246. — Stromate innato, oblongo, convexo, intus albido, extus nigro; loculis 1–5, membranaceis pallidis, ostiolis prominulis; sporulis lineari-oblongis, 8–10 ≃ 2–3, hyalinis, rectis, utrinque obtusis. 1435

   Hab. in caulibus Galii Molluginis et Aparines in Gallia, Italia, Germania.

2. **Placosphæria Sedi** Sacc. Mich. II. p. 115. — Stromatibus late et vage effusis piceis, subplanis, epidermide nigrificata velatis, intus crebre minute locellatis; contextu parenchymatico fusco; sporulis bacillari-falcatis, 22–24 ≃ 2, utrinque obtusiusculis, pluriguttulatis hyalinis, basidiis brevissimis obtusis suffultis. 1436

   Hab. in caulibus Sedi Telephii, Rouen Galliæ (Letendre). — Spermogonium *Euryachoræ Sedi* Fuck.

3. **Placosphæria Stellatarum** Sacc. Mich. II. p. 353. — Stromatibus amphigenis, minutis subcircularibus, ½ mill. diam., nigris, intus plurilocellatis basi hyphulis fuscis vestitis; contextu parenchymatico, fuligineo; sporulis bacillaribus, 30–40 ≃ 1½–2, utrinque obtusiusculis, 5–6-guttulatis, hyalinis. 1437

   Hab. in foliis nondum emortuis Galii v. Sherardiæ, Saintes Galliæ (Brunaud). — *Phyllachora punctiformis* Fuck. longe differt.

4. **Placosphæria Stellariæ** (Lib.) Sacc. Mich. II. p. 283. *Euryachora Stellariæ* (Lib.) Fuck. — Stromatibus gregariis, folio innatis, circulari-oblongis v. subangulosis, rufo-nigricantibus; sporulis cylindraceis, 12–15 ≃ 2, subrectis, basidiis teretibus dimidio brevioribus suffultis. 1438

   Hab. in foliis caulibusque Dianthi monspessulani, Belluno Italiæ borealis, et Stellariæ in Arduennis et Rhenogovia.

5. **Placosphæria Onobrychidis** (DC.) Sacc. Mich. II. p. 283. *Rhytisma Onobrychidis* DC. Mem. Mus. III. p. 324. — Stromatibus folio innatis, amphigenis, applanatis, atris, ambitu oblongis, 8–12 ≃ 3–5 mill., intus obscure plurilocularibus (?); sporulis copiosis, gyriniformibus, nempe ovoideis, 8–10 ≃ 2–2½, hyalinis, deorsum in caudam filiformem (stipitem adhærentem) 15–18 ≃ ½ productis. 1439

   Hab. in foliis caulibusque Lathyri latifolii in Euganeis Ital. bor., in Gallia et Germania.

6. **Placosphæria aterrima** (Lév.) Sacc. *Ascospora aterrima* Lév. Ann. sc. nat. 1846, p. 276. — Peritheciis gregariis, globosis, stromate innato ruguloso, nigro, maculiformi latitantibus; ostiolis obsoletis; sporulis ovalibus erectis, continuis, pellucidis. 1440

Hab. in foliis arboris ignotæ in Martinica.

7. **Placosphæria ficicola** (Lév.) Sacc. *Ascospora ficicola* Lév. Ann. sc. nat. 1846, p. 277. — Peritheciis hypophyllis globosis astomis in stromate effuso nigro maculiformi latitantibus; sporulis elongatis continuis rectis vel curvatis, sæpe fusiformibus. 1441

Hab. in foliis Fici hispidæ in Java insula.

8. **Placosphæria? nitida** (Lév.) Sacc. *Ascospora nitida* Lév. — Stromate obliterato; peritheciis hypophyllis, sparsis, innatis, prominulis, levibus, atro-nitidis, ostiolis nullis; sporulis globosis v. ovalibus, simplicibus, hyalinis. 1442

Hab. in foliis Acaciæ in Abyssinia. — « An potius *Phoma?* »

9. **Placosphæria graminis** Sacc. et Roum. Mich. p. 632 (**Agropyri*). — Stromatibus oblongis, sæpius hypophyllis, applanatis, subinnatis, nigris, nitidulis; sporulis oblongis, subfusoideis, 25-28 = 5-6, leniter curvis, 2-3-nucleatis, hyalinis. 1443

Hab. in foliis languidis Agrostidis, Rouen Galliæ (Malbranche). — Forte spermogonium *Phyllachoræ Agrostidis* Fuck. — ***anceps** (*P.? graminis* S. et Roum. Mich. 631). — Stromatibus subcutaneis effusis, maculiformibus, piceis; nucleis parum distinctis; sporulis cylindraceo-curvulis, utrinque rotundatis, 20-24 = 4, hyalinis, denique 2-septatis, vix constrictis, basidiis teretiusculis suffultis. In foliis graminum in Arduennis (Libert). — Habitus *Phyllachoræ*.

10. **Placosphæria dothideoides** (Mont.) Sacc. *Ascospora? dothideoides* Mont. Syll. n. 1007. — Stromate minuto, lineari-lanceolato, nigro, epidermide tecto, $^3/_4$ mill. long.; peritheciis seu loculis 50-100 μ. diam., orbicularibus oblongisve longitrorsus biseriatis; nucleis albis; sporulis oblongo-linearibus, hyalinis, biguttulatis, 6-7 μ. long., sporophoris brevibus fultis. 1444

Hab. in foliis Phragmitis amphigena apud Montaud-lez-Miramas Galliæ (Castagne). — Habitus *Phyllachoræ graminis*, sed multo minor.

APPENDIX

Cliostomum Fr. [*Rhytismella* Karst.] Stroma subcorneum, submultiloculare, primo clausum, dein rimose dehiscens (An lichen?).

11. **Placosphæria corrugata** (Ach.) Karst. Hedw. 1884, p. 60. *Clio-* 1445

stomum corrugatum (Ach.) Fr. Summa p. 121. *Lecidea corrugata* Ach. Syn. p. 18. — Gregaria, superficialis, rugoso-plicata, planiuscula, interdum subsphæroidea v. depresso-concava, cornea, paucilocularis, atra, conceptaculo rimis pluribus flexuosis dehiscente, fragili, nigra, $^1/_2$–2 mill. lat.; sporulis elongatis v. botuliformibus, rectis v. curvulis, 3 ≃ 0,5.

Hab. in ligno indurato pineo, alneo, quercino (in thallo lichenum?) in Suecia, Britannia, Gallia, Germania, Italia.

FUSICOCCUM Corda in Sturm Crypt. Fl. f. 52. emend. Sacc. Mich. II. p. 99. (Etym. *fusus* et *coccum*, quasi sporulæ fusoideæ in cocci formam compactæ). *Dothiopsis* Karst. p. p. — Stroma subcutaneo-erumpens, convexum v. conicum, subcoriaceum, atrum intus plus v. minus distincte pluri-loculare. Sporulæ fusoideæ, continuæ, hyalinæ, plerumque majusculæ et rectæ. — Sub hoc genere, a Corda sat vage definito, *Cytosporæ* species colligo, quæ sporulis majusculis fusoideis utuntur.

1. **Fusicoccum Æsculi** Corda in Sturm Deutsch. Crypt. t. 52, Sacc. Mich. II. p. 99. — Stromatibus erumpentibus conoideis, fuscis, intus obsolete plurilocularibus; sporulis fusoideis, 23–30 ≃ 5, basidiis bacillaribus, 20–30 ≃ $1^1/_2$–2, suffultis. 1446

Hab. in ramis Hippocastani in Bohemia et Italia bor.

2. **Fusicoccum fibrosum** Sacc. *Diaporthes fibrosæ* st. sperm. Sacc. Syll. I. p. 618. — Stromatibus conicis, erumpentibus, pluricellularibus, cellulis pulpa luteo-fusca fretis; sporulis ellipsoideis, basi acuminatis, continuis, hyalinis, nucleolatis, 11 ≃ 5. 1447

Hab. in ramis truncisque exsiccatis Rhamni cathartici in Italia bor. et verisimiliter in Suecia, Britannia, Germania, Belgio, Gallia.

3. **Fusicoccum ornellum** Sacc. Mich. II. p. 99. — Stromatibus conicis, corticolis, innato-erumpentibus, griseis, 2–4-cellularibus; sporulis oblongo-fusoideis, utrinque obtusiusculis, 12–15 ≃ $3^1/_2$–4, hyalino-farctis, curvulis, basidiis filiformibus, 15–20 ≃ $2^1/_2$, e strato proligero ochraceo oriundis suffultis, accedentibus paraphysibus bacillaribus, 80 ≃ 3. 1448

Hab. in ramis Fraxini Orni in Italia boreali et in Arduennis.

4. **Fusicoccum Schulzeri** Sacc. in Sch. Micr. Slav. n. 33. Schulz. Ill. fung. Slav. n. 686. — Stromatibus corticalibus tumidulis modice erumpentibus 1 mill. lat.; peritheciis in quaque pustula 1–4, glo- 1449

bulosis in collum breve attenuatis, ostiolo obtuso, 0,1-0,3 mill. cr.; sporulis cylindraceis, curvulis, utrinque obtusis, 16-25 ≃ 5, hyalinis, basidiis filiformibus, sesquilongioribus, fasciculatis suffultis.

Hab. in ramis corticatis Rosæ caninæ pr. Vinkovce. — A genere *Fusicocco* sporulis curvulis aliquid recedit.

5. **Fusicoccum viridulum** (Bon.) Sacc. *Polythecium viridulum* Bon. Bot. Zeit. 1863, p. 203. — Stromatibus e loculis cylindraceis subverticalibus compositis, rotundis ovoideisve; sporulis fusiformibus, curvulis, utrinque obtusiusculis, hyalino-viridulis; basidiis ramulosis, brevibus. 1450

Hab. in ramis subvivis Ribis rubri in Guestphalia.

6. **Fusicoccum bacillare** Sacc. et Penz. Sacc. Mich. II. pag. 627. — Stromatibus gregariis, e basi suboblongis, conicis, innatis, tumidulis, ¾-1 mill. lat., nigris, intus griseis, spurie plurilocularibus disco minuto albo-furfuraceo; sporulis tereti-bacillaribus, subrectis, 14-15 ≃ 2, utrinque obtusis, hyalinis; basidiis cylindraceis brevibus e basi prolifera, filamentis reticulato-intricatis hyalinis contexta, oriundis. — Var. **dolosa**: stromatibus e situ superficiali disco albo carentibus, hinc habitu a typo diversissimis; ceteris iisdem. 1451

Hab. in cortice interiore Pinorum, Le Sapey (Isère) Galliæ (Therry).

7. **Fusicoccum Pini** (Pr.) Sacc. *Nœmaspora Pini* Preuss F. Hoyersw. n. 148. — Stromatibus minutis, gregariis; peritheciis compositis, corneis sublentiformibus, nigris; nucleo pulposo candido; cirro guttuliformi; sporulis oblongis basi attenuato-acuminatis, albis; basidiis continuis. 1452

Hab. in cortice Pini leviore, Hoyerswerda.

8. **Fusicoccum pithyum** Sacc. et Penz. Sacc. Mich. II. p. 626. — Stromatibus innato-subsuperficialibus, gregariis, pulvinatis, atris, ½-1 mill. diam., vertice verruculosis, denique collapsis, intus subfarctis, griseis, spurie plurilocellatis; sporulis fusoideis, curvulis, utrinque acutiusculis, 14-15 ≃ 1,5-2,5, hyalinis; basidiis fasciculatis, aciculariformibus, sporulas subæquantibus. 1453

Hab. in cortice emortuo relaxato Pinorum, Le Sapey (Isère) Galliæ (Therry).

9. **Fusicoccum quercinum** Sacc. Mich. II. p. 345. *Cytispora quercina* Sacc. Mich. I. p. 261, non West. Spermog. *Diaporthes leiphæmia* (Fr.) Sacc. — Stromatibus transverse oblongis, innato-erumpentibus, obsolete plurilocularibus, intus sordide roseis; sporulis 1454

cylindraceo-fusoideis, 15–16 ≃ 3–3,5, lenissime curvulis, obsolete 2-guttulatis, v. plasmate bipartito, utrinque acutiusculis, hyalinis; basidiis filiformibus paulo brevioribus.

Hab. in cortice quercino, Selva in Italia boreali.

10. **Fusicoccum Hapalocystis** Sacc. *Calosporæ Hapalocystis* pycnidium Fuck. Symb. p. 191. — Stromatibus..... sporulis in sterigmatibus filiformibus acrogenis, ovato-oblongis, basin versus attenuatis, continuis, obscure triguttulatis, dilute flavis, 28 ≃ 8. 1455

Hab. in ramis emortuis Platani in Rhenogovia.

11. **Fusicoccum eumorphum** Sacc. Mich. II. p. 99. — Stromatibus innato-erumpentibus, conicis, obtusiusculis, $^3/_4$ mill. diam., corticolis, carbonaceo-coriaceis, nigris, 2–4-locellatis; sporulis fusoideis, utrinque acutis, sæpius inæquilateralibus, 30–32 ≃ 3½–4, nubilosis, hyalinis. 1456

Hab. in cortice Ulmi (?) pr. Rouen Galliæ (Letendre).

12. **Fusicoccum glœosporioides** Sacc. et Roum. Reliq. Lib. IV. n. 97. — Stromatibus depresso-conicis, subcutaneis, dein erumpentibus atris, intus ceraceis pallidis, spurie locellatis; sporulis oblongo-fusoideis, rectis, hyalinis, 8–10 ≃ 2,5; basidiis non visis. 1457

Hab. in ramis corticatis Betulæ (?) in Arduennis.

13. **Fusicoccum leucostomum** Sacc. *Diaporthes Spinæ* spermog. Fuck. Symb. pag. 210. — Stromatibus sparsis seriatisve, tectis, demum erumpentibus, atris, majusculis, late perforatis, ostiolo albicante, plurilocularibus, loculis globosis, griseis; sporulis cylindraceis, rectis, utrinque uniguttulatis, hyalinis, 14 ≃ 4. 1458

Hab. in ramis siccis Salicis auritæ in Rhenogovia.

14. **Fusicoccum Lesourdeanum** Sacc. et Roum. Reliq. Lib. IV. p. 95. t. 43, f. 22. — Stromatibus subcutaneis vix erumpentibus, conicis, griseo-atris, intus varie et spurie locellatis; sporulis fusoideis, utrinque obtusiusculis, 30 ≃ 8, hyalinis, rectis; basidiis non visis. 1459

Hab. in ramis corticatis Coryli (ut videtur) in Arduennis.

15. **Fusicoccum cinctum** Sacc. et Roum. Reliq. Lib. IV. n. 94, t. 43, f. 23. — Stromatibus pulvinatis, sparsis v. laxe gregariis subcutaneis, solo disco ovali plano erumpente, atro-olivaceis, zona olivacea subcutanea cinctis, intus spurie locellatis; sporulis oblongo-teretibus deorsum tenuatis, 14–18 ≃ 4, hyalinis, eguttatis; basidiis bacillaribus dimidio brevioribus. 1460

Hab. in ramis corticatis Castaneæ in Arduennis.

16. **Fusicoccum castaneum** Sacc. *Cytispora castanea* Sacc. Mich. I. p. 519. — Stromatibus pulvinatis erumpentibus, rufescentibus, in- 1461

tus varie locellatis, pallidioribus; sporulis fusoideis, rectis, 6,5–8 ≃ 2–2,5, raro longioribus, nempe 10–12 ≃ 2–2,5, sæpius biguttulatis, hyalinis; basidiis fasciculatis acicularibus, 7–10 ≃ 1,5, hyalinis.

Hab. in ramis corticatis emortuis Castaneæ vescæ in Italia, Gallia, Germania. — Status spermogonicus *Liaporthes castaneæ* (Tul.) Sacc.

17. **Fusicoccum guttulatum** Sacc. et Roum. Reliq. Lib. IV. n. 93, t. 43, f. 24. — Acervulis subcutaneis, vix erumpentibus, pulvinatis intus plurilocellatis atro-olivaceis; sporulis tereti-fusoideis, utrinque rotundatis, 14–16 ≃ 2,5, hyalinis, 4-guttulatis, rectis; basidiis filiformibus sporulâ dimidio brevioribus. 1462

Hab. in ramis corticatis Fagi in Arduennis (Libert).

18. **Fusicoccum galericulatum** (Tul.) Sacc. *Diaporthes galericulatæ* st. sperm. Syll. I. p. 629. — Stromatibus tuberculatis, erumpentibus, fuscis, intus pallidis multilocellatis; sporulis fusoideis 6–10 ≃ 3,5–4, hyalinis. 1463

Hab. in ramis corticatis Fagi silvaticæ prope Versailles Galliæ.

19. **Fusicoccum Carpini** Sacc. *Diaporthes Carpini* st. sperm. Syll. I. 608. — Stromatibus demum erumpentibus 1–2 mill. latis, poro centrali plerumque irregulariter fisso apertis, intus cellulis globosis, dense stipatis formatis; sporulis lanceolato-fusiformibus, biguttulatis (uniseptatis?), hyalinis, 12 ≃ 3–4. 1464

Hab. in ramis siccis Carpini Betuli in Suecia, Germania, Gallia, Belgio et Italia.

20. **Fusicoccum Kunzeanum** Sacc. Syll. I. p. 607. Reliq. Lib. IV. t. 44, f. 25. *Diaporthes Kunzeanæ* st. sperm. — Stromatibus subcuticularibus, conoideo-depressis, medio pertusis, e fusione cellularum quasi 1-locularibus, pulpa lutescenti fœtis; sporulis oblongo-fusoideis, rectis curvulisve, 10–11 ≃ 3, 4-guttulatis (tandem 1-septatis?), sterigmatibus brevissimis fasciculatis, fultis. 1465

Hab. in ramulis Carpini Betuli, Selva, Treviso Ital. bor. et in Arduennis.

21. **Fusicoccum Farlowianum** Sacc. et Roum. Reliq. Lib. IV. n. 98, t. 43, f. 21. — Stromatibus majusculis, dein superficialibus, irregulariter globosis, usque 2 mill. diam., nigris, intus pluri-locellatis pallidioribus; sporulis fusoideis, utrinque acutis, 12–14 ≃ 2,3–3, hyalinis; basidiis bacillaribus fasciculatis sub-æquilongis. 1466

Hab. in ligno putri, jam decorticato, in Arduennis.

22. **Fusicoccum coronatum** Karst. Hedw. 1884. p. 21. — Stromati- 1467

bus hypo-raro epiphyllis, sparsis vel confertis, sed epidermidem nigrificatam fissam erumpentibus, depresso-subconoideis, albido-furfuraceis, 5-8 μ. latis; sporulis cylindraceis, utrinque rotundatis, 12-14 ≃ 2-2,5 μ.

Hab. in foliis putrescentibus Betulæ albæ ad Mustiala in Fennia.

CYTOSPORELLA Sacc. Mich. II. p. 100. (Etym. a *Cytospora* cui analogum genus). — Stroma valseum v. verrucosum innato-erumpens v. subsuperficiale, subcoriaceum, atrum, intus pallidius, plus minusve distincte pluriloculare. Sporulæ globosæ v. ovoideæ, continuæ, subhyalinæ, plerumque minutissimæ. — Est quasi *Cytospora* sporulis globoso-ovoideis.

1. **Cytosporella sycina** Sacc. Mich. II. p. 100. — Stromatibus innato-erumpentibus, corticolis, conicis, ½ mill. diam., intus plurilocellatis, locellis globulosis, nucleo subcarneo; sporulis ovoideis, minutissimis, 2 ≃ 1, hyalinis, basidiis bacillaribus, 15 ≃ 1½, suffultis. 1468

Hab. in ramis Fici Caricæ in Gallia merid. (Roumeguère).

2. **Cytosporella Scheidweileri** (West.) Sacc. *C. Scheidweileri* West. Exs. n. 1134 Lamb. Fl. myc. Belg. vol. III. — Pustulis irregularibus, subseriatis, epidermidem bullatim inflantibus, denique lacerantibus; perithecciis globuloso-oblongis; ostiolis brevibus, crassis, inæqualibus, discum colliculosum formantibus; cirris rubro-aurantiacis; sporulis ovoideis, obtusis, angustis. 1469

Hab. in trunco emortuo Rhois, Courtrai Belgii.

3. **Cytosporella Æsculi** (West.) Sacc. *C. Æsculi* West. Exs. n. 721. — Peritheciis atris, minutis, stromate griseo immersis pustulasque 1-4 mill. diam. formantibus, irregulariter globosis, epidermide lacerata cinctis, discis pluribus minutis circa centralem albo-pruinosum dispositis; sporulis perexiguis, ovoideis, copiosissimis; cirro incarnato, dein fuscescente. 1470

Hab. in trunco emortuo Æsculi, Courtrai Belgii.

4. **Cytosporella pisiformis** (Fr.) Sacc. *Cytispora pisiformis* Fr. in Duby Bot. Gall. II. p. 725. — Peritheciis numerosissimis, atris, difformibus irregulariter coacervatis, in conceptaculo erumpente atro-fusco globoso inclusis; disco minuto, subconcolore, plano; ostiolo centrali nigro; sporulis numerosissimis, in cirrum flavidum protrusis, globulosis, flavidis, 3-4 μ. diam. 1471

Hab. in ramulis quercinis in mont. Vogesis (Mougeot). — Spermogonium *Melanopis mirabilis*, teste Fuck.

5. **Cytosporella sphærosperma** (West.) Sacc. *Cytispora sphærosperma* West. Bull. Soc. Belg. II. t. XV. n. 7. — Stromate subrotundo, prominente, rugoso, majusculo, epidermide lacerata cincto; peritheciis nigris, minutis, compressis, numerosis, stromate immersis; ostiolis papillatis; cirro albido; sporulis globulosis, hyalinis. 1472

Hab. in radicibus avulsis Quercus emortuæ, Mons Belgii (R. P. Dumont).

6. **Cytosporella mendax** Sacc. et Roum. Reliq. Lib. IV. n. 109. — Stromatibus superficialibus, epixylis, globoso-inæqualibus, usque ¾ mill. diam., atris, intus plurilocellatis; sporulis globoso-ellipsoideis, 4-5 ≃ 3,5-4, hyalinis; basidiis minutis papilliformibus. 1473

Hab. ad ligna quercina in Arduennis (Libert).

CYTOSPORA Ehrenb. Syl. Berol. p. 28. *Cytispora* Fr. S. M. II. p. 540. *Psecadia* Fr. Summa p. 414. (Etym. *cytos* cavitas, et *spora*). — Stromata tecta v. erumpentia, conica v. verruciformia, intus loculis difformibus, modo obsoletis, sæpe distincte circinantibus fœta. Sporulæ copiosissimæ, continuæ, subhyalinæ, oblongo-allantoideæ, basidiis variis suffultæ, madore in cirros varios expulsæ. Spermogonia Allantosporarum frequentissima. — Nonnullæ species, sporulis ignotis, forte ad *Cytosporellam* v. *Dumortieram* referri possent.

I. *Arboricolæ* (ramicolæ).

1. **Cytospora clypeata** Sacc. *Valsellæ clypeatæ* st. sperm. Fuck. Symb. App. I. p. 31. — Stromatibus multicellularibus, deplanatis, poro albo; sporulis allantoideis, 6 ≃ 1, curvatis, hyalinis. 1474

Hab. in ramis siccis corticatis Rubi fruticosi prope Œstrich Rhenogoviæ.

2. **Cytospora Rubi** Schw. Syn. Am bor. n. 2161. — Tuberculis in macula aggregatis longe lateque effusa lactea, immersis, nigris, regulariter ovatis, applanatis, subcellularibus, intus albidis, elevatis in collum centrale, ex quo protruduntur cirri crassi difformes, decumbentes ex albo lutescentes. 1475

Hab. in junioribus ramis Rubi Idæi hortorum, frigore enecati, Bethlehem Amer. bor.

3. **Cytospora Hendersonii** Berk. et Br. Outl. Fung. p. 322, Brit. Fungi p. 436. — Pustulis minutis, sparsis; peritheciis simplicibus (?) tenuibus, subinde margine lobatis, gelatina albida; sporulis oblongis brevibus, curvulis, hyalinis, majusculis, inordinate exsilientibus. 1476

Hab. in ramulis Rosæ arvensis in Britannia. — Teste Berk., in genere anceps et *Sphæropsidi* quoque proxima.

4. **Cytospora rhodophila** Sacc. *Valsæ rhodophilæ* st. sperm. Nits. Pyr. Germ. p. 209. — Stromatibus minutis, conico-truncatis, poro centrali, singulo apertis spurie paucilocularibus, loculis radiatim dispositis; sporulis cylindricis, curvulis, 5–7 ≃ 1, in sterigmatibus tenuissimis, breviusculis, subsimplicibus acrogenis. 1477

Hab. in ramis siccis Rosæ caninæ in Germania et Britannia.

5. **Cytospora Rosarum** Grev. in Bail. Syst. d. Pilz. p. 81, t. 14. — Stromatibus gregariis, subcutaneo-erumpentibus, conicis, intus sinuose et obsolete plurilocellatis, cinereo-fuscis, epidermide subinde rubefacta cinctis; sporulis allantoideis, 5–6 ≃ 1,5, hyalinis. 1478

Hab. in ramulis Rosæ caninæ in Gallia, Britannia, Italia, Germania. — Spermogonium *Valsæ Rosarum*.

6. **Cytospora Massariana** Sacc. *Valsæ Massarianæ* stat. spermog. Nits. Pyr. Germ. p. 221. — Stromatibus loculis minutissimis, densissime ac radiatim stipatis farctis, foramine unico, centrali in disco albido, pulverulento, instructis; sporulis cylindricis, subrectis, 6–7 ≃ 1; sterigmatibus brevibus, subsimplicibus. 1479

Hab. in ramis Sorbi Aucupariæ in Gallia, Germania, Italia. 1480

7. **Cytospora microspora** (Corda) Rabenh. Deutsch. Crypt. Fl. p. 147. *Næmaspora microspora* Corda Ic. III. p. 26, fig. 69. — Pustulis hemisphæricis, subcutaneis, albidis v. nigrescentibus, stromate partito atro, centro subcolumelliformi et subradiato; pseudostromate aurantiaco, loculis numerosis polymorphis v. flexuosis albidis, ostiolo centrali atro communi; cirro albo; sporulis suballantoideis curvulis, 6–7 ≃ 1–1,3; basidiis bacillaribus sporulâ triplo longioribus.

Hab. in ramis Sorbi, Piri, Cratægi, Quercus in Gallia, Germania, Suecia.

8. **Cytospora rubescens** Fr. S. M. II. p. 542. — Stromate subcutaneo depresso; disco erumpente fuligineo; cirris rubescentibus; loculis immersis circinantibus; sporulis allantoideis, 4 μ. longis, aliisque (basidiis?) filiformibus 35–45 μ. longis. 1481

Hab. ad corticem Sorbi, Pruni, Piri in Gallia, Suecia, Germania, Italia, America boreali. — *Eutypellæ Sorbi* spermogonium. *Cyt. rubescens* (Hedw. 1866, p. 73) sporulis gaudet 8–10 μ. longis, an diversa? — Conceptaculum omninò ut in *Sphæriis Incusis*. Loculi circa perithecium centrale circinantes numerosissimi, primo obsoleto, dein perithecia referunt, sed semper astomi, oblongo-difformes.

9. **Cytospora capitata** Sacc. et Schulz. Micr. Slav. n. 55. Schulz. Ill. Fung. Slav. n. 811. — Conceptaculis sparsis, subcutaneis, 1–2 mill. diam., discoideis loculis variis sinuosis, subinde incompletis, intus pallidis; ostiolis emergentibus, in globulum atrum coalescentibus; sporulis oblongo-botuliformibus, 5–6 μ. longis, hyalinis; basidiis fasciculatis, bacillaribus, brevissimis. 1482

Hab. in ramis emortuis Piri Mali pr. Vinkovce.

10. **Cytospora leucostoma** (Pers.) Sacc. Mich. II. p. 264. *Sphæria leucostoma* Pers. p. p. — Stromate lenticulari, nigricante, subcutaneo-erumpente, disco plano, niveo emergente; cirris rubescentibus; sporulis botuliformibus, 5 ≃ 1, hyalinis, basidiis filiformibus, 12 ≃ 1, suffultis. 1483

Hab. in ramis corticatis Pruni Padi, P. Cerasi, P. domesticæ in Germania, Gallia, Italia, Sibiria.

11. **Cytospora asterophora** Sacc. Mich. II. p. 265. — Conceptaculis conico-depressis, minutis, innato-erumpentibus, 4–5-locularibus, nucleis pallidis; sporulis allantoideis $3^1/_2$–4 ≃ 1, hyalinis, basidiis obclavulatis, 20 ≃ 2, fasciculatis, inque glomerulos eximie stellatos diu consistentibus suffultis. 1484

Hab. in ramis corticatis Pruni domesticæ, Padova Italiæ borealis. — forma **Deutziæ scabræ**: sporulis 3 ≃ 1, basidiis verticillato-ramosis, 25–30 ≃ 1. — In ejusdem ramis, Padova.

12. **Cytospora floccosa** Wallr. Fl. crypt. n. 3636. — Peritheciis nigris simplicibus, epidermide scissa cinctis, vertice truncato albo ocellato, cirrum candidum crassum guttatum, ex sporulis solutis (ovatis?) conflatum eructantibus. 1485

Hab. ad ramos Pruni domesticæ in Germania.

13. **Cytospora microstoma** Sacc. *Valsæ microstomæ* st. spermog. Nits. Pyr. Germ. p. 193. — Stromatibus e basi rotundato-ovali convexis, rarius conicis, poro in disculo unico, raro pluribus instructis, multilocularibus, loculis radiatim ordinatis; sporulis cylindricis, curvulis, pro ratione crassiusculis, 5–6 ≃ 1,5; sterigmatibus brevissimis, 28 μ. circ. longis, ramosis, crassiusculis. 1486

Hab. in ramis crassioribus Pruni spinosæ et domesticæ in Anglia, Gallia, Germania, Italia, Suecia, frequens.

14. **Cytospora cincta** Sacc. *Valsæ cinctæ* st. sperm. Nits. Pyr. germ. p. 228. — Stromatibus pustulatis, poro unico, centrali, raro pluribus in disco sordide albido apertis, nunc subsimplicibus, nunc contra pauci- v. multilocularibus, loculis radiatim ordinatis; sporulis 1487

cylindricis, curvulis, magnitudine variis, plerumque 6-8-rarius 4-9 ≃ 1,5-2, in cirros rubescentes tandem protrusis.

Hab. in ramis Pruni spinosæ, Armeniacæ, Persicæ in Suecia, Germania, Gallia.

15. **Cytospora cerasicola** Sacc. *Valsariæ rubricosæ* spermog. Fuck. Symb. myc. p. 227. — Stromatibus sub corticis epidermide nidulantibus, maximis, cytosporoideis, plurilocularibus, conceptaculis depresso-globosis, extus atris, basi albicantibus, villosis, sæpe confluentibus, demum per corticem fissam valde intumescentibus; sporulis minutissimis, cylindraceis, subcurvatis, 3 ≃ 1, hyalinis. 1488

Hab. in cortice Cerasi avium, rarius, in Rhenogovia.

16. **Cytospora leucophthalma** B. et C. North Am. Fungi n. 462. — Pustulis minutis, apice niveo, ostiolo communi, atro percurso; peritheciis in stromate nigro conditis, globoso-ellipsoideis; sporulis minutissimis curvulis. 1489

Hab. in cortice Cerasi caroliniensis in Carolina inf., New Jersey Am. bor. Exemplaria ex New Jersey (*C. nivosa* B. et C.) sporulis pollent paulo longioribus, cetera eadem.

17. **Cytospora anceps** Sacc. Mich. II. p. 344. — Stromatibus gregariis subcutaneo-prominulis, vix erumpentibus, globulosis, intus univ. paucilocularibus, olivaceis, ½ mill. diam.; sporulis allantoideis, 6-10 ≃ 1, curvulis, hyalinis. 1490

Hab. in ramis corticatis Cerasi (an potius Fagi?) in Gallia merid. — Ob habitum forte *Fenestellæ* spermogonium.

18. **Cytospora globifera** Fr. S. M. II. p. 546. — Tuberculo difformi, sublobato, stramineo, nigro-limitato; gelatina erumpente, globosa, flavo-fusca. 1491

Hab. in cortice Spirææ opulifoliæ in Suecia. — Eximie distincta; cellulæ obsoletæ, in tuberculum solidiusculum concretæ, cortici omnino innatæ, nec discus erumpens; globulus induratus, persistens.

19. **Cytospora Oxyacanthæ** Rabenh. Bot. Zeit. 1858, p. 503, n. 754. — Stromatibus 10-12-locellatis; sporulis cylindricis, utrinque rotundato-obtusis, hyalinis, continuis, plus minusve curvatis. 1492

Hab. in ramis Cratægi Oxyacanthæ in Germania.

20. **Cytospora Cotoneastri** Thüm. Pilzfl. Sibir. n. 783. — Peritheciis gregariis, erumpentibus, conoideis, epidermide pertusis, disco albo et plano, medio ostiolato; basidiis fasciculatis, brevibus, hyalinis, rectis; sporulis cylindricis, subarcuatis, utrinque acutato-rotundatis, continuis, interdum nucleatis, numerosis, achrois, 9-10 ≃ 2,5. 1493

Hab. in ramulis emortuis Cotoneastri melanocarpæ in desertis pr. Minussinsk Sibiriæ. — A *Cytospora nivea* Fuck. Enum. fung. Nassov. n. 431 differt sporulis duplo majoribus!

21. **Cytospora macularis** Schulz. et Sacc. Micr. Slav. n. 56. Schulz. Ill. Fung. Slav. n. 261. — Albo-macularis; stromatibus subcutaneo-erumpentibus, depresse verruciformibus, $^1/_6$-$^1/_3$ mill. diam., cinereo-fuscis, intus loculos tortuosos pallidos ferentibus; sporulis allantoideis, hyalinis, $8 \simeq 3$; basidiis fasciculatis 3-4-plo longioribus, bacillaribus, parce ramulosis. 1494

Hab. in ramis Persicæ vulgaris pr. Vinkovce. — Maculæ albæ corticales, 10-12 mill. lat. vere peculiares!

22. **Cytospora Persicæ** Schw. Syn. Amer. bor. n. 2156. — Tuberculo tecto, demum prorumpente, orbiculari, minuto, sparso, nigro; ore albescente, cirrulo deciduo, albido; intus celluloso-grumoso albescente. 1495

Hab. frequentissima in junioribus ramulis Persicarum, New York, Salem et Bethlehem Amer. bor. (Schweinitz, Sartwell).

23. **Cytospora punica** Sacc. Mich. I. p. 368. *Valsæ punicæ* spermog. Cfr. Syll. I. p. 130. Fung. It. 403. — Peritheciis subcutaneis laxe congregatis, globulosis; ostiolis vix emergentibus cylindraceis perithecio sublongioribus; contextu regulariter parenchymatico fuligineo; sporulis botuliformibus, $5 \simeq 1$, hyalinis; basidiis bacillaribus sporulà duplo triplove longioribus. 1496

Hab. in ramis corticatis Punicæ Granati, Conegliano Italiæ borealis.

24. **Cytospora Australiæ** Speg. F. Arg. Pug. I. p. 189. — Peritheciis minutis, 90-110 μ. diam., 3-5 valsiformiter aggregatis, cortici immersis subglobosis, in ostiolum elongatiusculum desinentibus, contextu membranaceo, parenchymatico, olivaceo; ostiolis fasciculatis superficiem corticis attingentibus, non vel vix exsertis, atris, punctiformibus; sporulis allantoideis, curvulis, utrinque obtusiusculis, $4\text{-}6 \simeq 1{,}5\text{-}2$, hyalinis, sterigmatibus hyalinis, cylindraceis vel subfusiformibus, $15\text{-}16 \simeq 1{,}5$, suffultis. 1497

Hab. in ramulis dejectis emortuis Eucalypti Globuli a la Recoleta in Argentina Amer. austr.

25. **Cytospora Vitis** Mont. Syll. Crypt. n. 925. *Valsæ Vitis* st. sperm. Nits. Pyr. Germ. p. 190. — Stromatibus per corticem superiorem fibrosum, ductu lineari longitudinaliter parumque emergentibus, primo albido-pulverulentis, collo centrali, nigro, poro pertuso præditis, multilocularibus, loculis radiatim dispositis irregularibus; 1498

sporulis cylindricis, curvulis, 4–5 ≃ 1, in sterigmatibus simplicibus, longiusculis acrogenis, tandem in cirros pallide luteolos v. succineos protrusis.

Hab. in sarmentis Vitis viniferæ in Germania, Italia, Gallia, Amer. bor. — *Cytospora Vitis* Fuck. F. Nass. p. 52 eadem species videtur. — Var. **macrospora** Sacc. et Roum. Reliq. Lib. IV. n. 104; sporulis 10 ≃ 1,5. In ejusdem sarmentis in Gallia.

26. **Cytospora incerta** Thüm. Pilz. Weinst. p. 184 *C. Vitis* Schulz. 1499
— Pseudoperitheciis variis, aut simplicibus aut conjunctis, tenuissimis, parte emersa nigris, plerumque immersis, postremo evanescentibus; hyphis paullulum ramosis; sporulis cylindrico-curvatis, hyalinis, 6 μ. longis.

Hab. in sarmentis emortuis Vitis viniferæ in Slavonia (Schulzer).

27. **Cytospora ampelina** Sacc. *Cryptovalsæ ampelinæ* st. sperm. sec. 1500
Nits. — Peritheciis seriatis, in stromate nunc longe lateque effuso, nunc contra brevi, maculiformi, immersis, atris; sporulis copiosis, cylindraceis, utrinque obtusis, rectis, continuis, hyalinis, 16 ≃ 2,5.

Hab. in sarmentis Vitis in Gallia, Italia, Germania.

28. **Cytospora rhoina** Fr. S. Myc. II. p. 546. — Tuberculo globoso, 1501
solidiusculo, pallido; cirro tenerrimo concolori; sporulis 5 μ. longis.

Hab. in ramis emortuis Rhois in Suecia et Amer. bor. — Sclerotium refert, molle, absque cellulis distinctis. Cirrus admodum rarus et tenuis.

29. **Cytospora Buxi** Desm. 16 Not. p. 355. — Stromatibus minutis, 1502
sparsis, nigris, ovatis, subconicis epidermide rimose rupta tectis; ostiolo papilliformi; peritheciis 2–4 polymorphis; basidiis tenuibus abbreviatis; sporulis minutissimis, numerosis ovoideo-oblongis, subacutis, hyalinis, 5–7 μ. diam., 2-guttatis; cirro albido griseo.

Hab. in ramis emortuis Buxi sempervirentis in Gallia.

30. **Cytospora sphærocephala** (Schw.) Sacc. *Lamyella sphærocepha-* 1503
la Fr. Summa p. 410. *Sphæria sphærocephala* Schw. Fr. S. M. II. p. 497. Cfr. Syll. II. p. 425, ubi descriptio.

Hab. in ramis Hydrangeæ in Carolina Amer. bor.

31. **Cytospora atra** (Bon.) Sacc. *Lamyella atra* Bon. Abhandl. II. 1504
p. 134, t. II. f. 15. — Stromate parvo, tecto-erumpente, extus atro, intus pallido, distincte plurilocellato, loculis in disco prominulis porisque discretis rotundatis instructis; sporulis oblongo-allantoideis, minutissimis, hyalinis; basidiis ramosis longiusculis.

Hab. in ramis siccis Mori albæ et nigræ in Guestphalia.

— Præcipue ostiolis discretis dignoscenda. Affinis *Cytosp. sphærocephalæ*.

32. **Cytospora ficicola** B. et C. North Am. Fungi n. 461. — Pustulis minutis, epidermide tectis; peritheciis globosis; sporulis oblongis curvulis, 7 μ. longis. 1505

Hab. in ramis Fici in Pensylvania Amer. bor. (Michener).

33. **Cytospora macilenta** Rob. et Desm. XVII. Not. p. 26. — Stromatibus minutis, punctiformibus, brunneis vel nigris, numerosis, inordinatis, irregulariter rotundatis, ovatis vel reniformibus, convexis, epidermide tectis, dein rupta cinctis; loculis, 5–7 tenuibus, circinantibus; nucleo pulposo; cirro crasso, abbreviato, albido lutescente; sporulis oblongis, rectis, obtusiusculis, hyalinis, 2–4 guttulatis, 10–15 ≈ 2,5, subopacis. 1506

Hab. in ramis exsiccatis Aceris Negundinis et Corni maris in Gallia et Belgio.

34. **Cytospora hyalosperma** Fr. S. M. II. p. 545. — Stromate immerso obsolete celluloso colloque erumpente conico-convexo nigris; cirro hyalino. 1507

Hab. in cortice Aceris rubri in Carolina super. Amer bor. — Inter minores, absque disco depresso.

35. **Cytospora Pseudoplatani** Sacc. *Valsæ Pseudoplatani* st. spermog. Nits. Pyr. Germ. p. 205. — Stromatibus minutis, e basi orbiculari conico-truncatis, disculo erumpente, ochraceo, papilla atra, porosa, centrali, minutissima, instructo, multilocularibus, loculis radiatim dispositis; sporulis cylindricis, curvulis, 5 ≈ 1,5; sterigmatibus simplicibus, tenuissimis, 28 μ. longis. 1508

Hab. in ramis Aceris Pseudoplatani, Cappenberg in Germania et in Suecia.

36. **Cytospora occulta** Sacc. *Melanconidis occultæ* spermog. Fuck. Symb. p. 190. — Peritheciis sub cortice nidulantibus, connatis, griseis; cirris ex poro communi, tuberculato, nigro expulsis, aureis; sporulis minutissimis, cylindraceis, curvatis, continuis, hyalinis. 1509

Hab. in ramis siccis Alni glutinosæ in Rhenogovia.

37. **Cytospora truncata** Sacc. *Valsæ truncatæ* st. sperm. Cfr. Syll. — Stromatibus truncatis, medio pulverulentis et subrimosis; sporulis allantoideis, coacervatis, succineis, 3–5 μ. longis. 1510

Hab. in ramis Alni, Johnsburgh, Warren C., Amer. bor.

38. **Cytospora diatrypa** Sacc. *Valsæ diatrypæ* st. sperm. Nits. Pyr. Germ. p. 226. — Stromatibus poro in disco albido singulo, centrali, multo rarius duobus tribusve pertusis, multilocularibus, locu- 1511

lis numerosis, minutissimis, circinatim ordinatis; sporulis cylindricis, curvulis, 6 ≃ 2, tandem in cirros rubentes protrusis; sterigmatibus longiusculis, filiformibus, ramosis.

Hab. in ramis Alni glutinosæ et incanæ in Suecia, Germania, Gallia et Fennia.

39. **Cytospora stenopora** Sacc. Myc. Ven. n. 751. *Valsæ stenoporæ* spermogonium. Cfr. Syll. I. p. 129. — Stromatibus gregariis, subcutaneo-erumpentibus, conicis, griseis, obsolete plurilocellatis, disco minuto erumpente; sporulis allantoideis, exiguis, curvulis, 4–5 ≃ 0,5, hyalinis. 1512

Hab. in ramis Alni glutinosæ in Italia et Gallia, socia *Valsa*.

40. **Cytospora umbrina** (Bon.) Sacc. *Psecadia umbrina* Bonord. Abhandl. p. 131, t. II. f. 6. — Stromate hemisphærico obtuso, umbrino demum nigro, subcutaneo, prominulo vix erumpente, intus lobato-1-loculari, pallidiore; sporulis allantoideis, minimis, hyalinis; basidiis ramulosis filiformibus. 1513

Hab. in ramis Alni in Guestphalia. — « An *Dendrophoma?* ».

41. **Cytospora horrida** Sacc. *Valsæ horridæ* stat. spermog. Nits. Pyr. Germ. p. 176. — Stromatibus e basi ovata convexis, depressis, subito in disculum minutum, ellipticum, planum, peridermium tandem transversim erumpentem idque vix superantem attenuatis, multilocularibus, loculis numerosissimis, sine ordine stipatis, extus castaneis, intus viridulis, poro in disculo minuto, albido-cinereo unico centrali, rarius pluribus perforatis; sporulis cylindricis, curvulis, hyalinis, in sterigmatibus dichotome ramosis, 20–48 μ. longis acrogenis. 1514

Hab. in ramis dejectis Betulæ albæ prope Münster Germaniæ.

42. **Cytospora betulina** Ehrenberg Sylv. Ber. p. 28. — Peritheciis depressis atris, disco erumpente, cirro tenui rubello. 1515

Hab. in ramis Betulæ albæ et verrucosæ in Germania, Belgio et Sibiria. — Cellulæ in cortice interiore obvallatæ absque stromate et conceptaculo. Discus erumpens, grumosus, cinerescens, planus.

43. **Cytospora stellulata** Sacc. *Valsæ stellulatæ* spermog. Fuck. Symb. p. 196. — Stromatibus multicellularibus; gelatina globuliformiter vel irregulariter expulsa, sordida; sporulis majusculis, cylindraceis, curvatis, 16 ≃ 3–4. 1516

Hab. in ramulis emortuis Ulmi campestris in Rhenogovia.

44. **Cytospora carbonacea** Fr. S. M. II. p. 544. — Stromate proprio tenui, cellulis atris discoque albido obsoletis; ostiolis prominentibus atris. 1517

Hab. in ramis Ulmi in Suecia et Amer. bor. — Species minus cognita, licet vulgatissima; conceptaculo proprio instructa; pustulæ minutæ, non prominentes, in cortice interiore innatæ, stromate proprio carbonaceo, in cellulas obscuras diviso, sed adest columna centralis admodum distincta; cirrus non visus.

45. **Cytospora nivea** (Hoffm.) Sacc. Mich. II. p. 264, *Sphæria nivea* Hoffm. p. p. — Stromatibus gregariis, subcutaneo-erumpentibus, conico-disciformibus, atris, intus minute plurilocellatis, disco erumpente subcirculari niveo; poro centrali pertuso; cirro purpurascenti; sporulis botuliformibus, hyalinis, 6–7 ≃ 1,5–2. 1518

Hab. in ramis corticatis Populi nigræ, angulatæ, tremulæ in Italia, Gallia, Germania, Sibiria, Britannia. — Spermogonium *Valsæ* (Leucostomæ) *niveæ*.

46. **Cytospora chrysosperma** (Pers.) Fr. S. M. II. p. 542. *Næmaspora chrysosperma* et *populina* Pers. Syn. p. 108–109. — Stromatibus subcutaneis, conico-applanatis, majusculis, olivaceo-cinereis, loculis immersis, subinde irregularibus, disco erumpente nigro-cinereo; sporulis allantoideis, hyalinis, 4 ≃ 1; cirris aureis majusculis copiosis. 1519

Hab. ad ramos corticatos Populi albæ, græcæ, italicæ, nigræ in Suecia, Germania, Gallia, Italia, Austria, America boreali. — *Valsæ sordidæ* spermogonium. — Conceptaculum orbiculare, conicum, basi convexa scutellari in cortice interiore innata et superne epidermide adnata incusum, quare hac rupta laceratur et denudatur huic inclusum stroma olivaceo-cinerescens, quod superne erumpit formatque discum exiguum, sordidum, rugosum, difformi-subrotundum, ostiolo centrali nigro, per quod protruditur gelatina cirrosa: loculi difficile discernuntur, oblongi, atri, humectati gelatina flava turgent, ostiolis in collum centrale junctis.

47. **Cytospora salicella** Sacc. *Valsellæ Salicis* spermog. Fuck. Symb. myc. p. 203. — Stromatibus multicellularibus; cirris pallidis, angustissimis; sporulis cylindraceis, curvatis, 2,7 ≃ 0,5. 1520

Hab. in ramulis corticatis Salicis auritæ in Rhenogovia.

48. **Cytospora dolosa** Sacc. *Valsæ dolosæ* st. sperm. Nits. Pyr. Germ. p. 200. — Stromatibus majusculis, protuberantibus, sæpe verruciformibus, intus viridulis, multilocularibus, loculis numerosissimis, sine ordine denseque stipatis; collo poroque singulo v. pluri- 1521

bus aperto; sporulis cylindricis, curvulis, 6–7 ≃ 1,5; sterigmatibus 32–40 μ. longis, hinc inde ramosis.

Hab. in ramis Salicis Capreæ prope Münster Germaniæ.

49. **Cytospora translucens** Sacc. *Valsæ translucentis* st. sperm. Nits. Pyr. Germ. p. 227. — Stromatibus perexiguis in disculo albido, fusco-marginato, poro unico centrali, rarius duobus tribusve apertis, paucilocularibus, loculis radiatim ordinatis, immo subsimplicibus; sporulis cylindricis, curvulis, 4–5 ≃ 1; sterigmatibus filiformibus, tenuissimis, 4 μ. longis, immo longioribus. 1522

Hab. in ramulis Salicis babylonicæ, rarius S. fragilis, albæ, pentandræ, purpureæ etc. in Germania, Fennia, Italia et America boreali.

50. **Cytospora Schweinitzii** Sacc. *Valsæ Schweinitzii* Nits. Pyr. Germ. p. 191. — Stromatibus e basi orbiculari, truncato-conicis, minutis, nonnihil protuberantibus, peridermio erumpentibus ejusque laciniis fissis cinctis v. peridermio, facile solubili, dejecto, in corticis interioris superficie fuscescenti liberis, in collum crassum, poro latiusculo pertusum attenuatis, spurie multilocularibus, immo simplicibus, loculis, ubi adsunt, pluribus, majusculis, radiatim dispositis; sporulis cylindricis, curvulis, 4–5 ≃ 1; sterigmatibus simplicibus v. basi ramosis, 28 μ. longis. 1523

Hab. in ramis corticatis Salicis Capreæ et fragilis in Germania et Italia.

51. **Cytospora macrobasis** Sacc. Mich. II. pag. 344. — Stromatibus erumpentibus, majusculis, globuloso-aggregatis, vertice sæpe obtuse papillatis, astomis, nigris; sporulis botuliformibus, vix curvulis, 7–8 ≃ 2, 2-guttulatis, hyalinis, basidiis iterato-furcatis, bacillaribus, 60 ≃ 2, hyalinis suffultis. 1524

Hab. in ramis corticatis salicinis pr. Rouen Galliæ (Letendre). — Basidiis prælongis mox distinguenda species.

52. **Cytospora fertilis** Sacc. *Valsellæ fertilis* st. sperm. Nits. Pyr. Germ. p. 238. — Stromatibus minutis, dense gregariis, pustulatis, poro unico in disco albido centrali apertis, multilocularibus, loculis radiatim ordinatis; sporulis cylindricis, curvulis, 5–7 ≃ 2, tandem in cirros rubentes propulsis; sterigmatibus breviusculis 20 μ. longis, parce ramosis, crassiusculis. 1525

Hab. in ramis et trunco Salicis Capreæ prope Münster Germaniæ.

53. **Cytospora Salicis** (Corda) Rabenh. Deutsch. Flora, Fung. n. 1340. *Nœmaspora Salicis* Corda Ic. IV. fig. 20, p. 80. — Stromatibus 1526

gregariis, tectis, dein erumpentibus, conicis; disco cinereo-fusco emergente; peritheciis radiantibus v. labyrintheis, confluentibus, pallidis v. griseis; cirro albido; sporulis botuliformibus, curvulis, 5-6 ≃ 1, basidiis bacillaribus sporulâ triplo longioribus.

Hab. in ramulis emortuis Salicis vitellinæ, albæ, fragilis, purpureæ in Italia, Germania, Gallia, Austria, America australi. — Forma Betulæ carpathicæ Corda l. c.: sporulis 8-10 μ. longis. In Bohemia. — *Valsæ salicinæ* spermogonium.

54. **Cytospora germanica** Sacc. *Valsæ germanicæ* st. sperm. Nits. Pyr. Germ. p. 215. — Stromatibus conico-truncatis, disco ex albido-cinereo et papilla minutissima, atra, centrali, pertusa instructis, multilocularibus, loculis radiatim dispositis; sporulis cylindricis, curvulis, 5 ≃ 1,5; sterigmatibus filiformibus, tenuissimis, subsimplicibus, circiter 20-24 μ. longis. 1527

Hab. in ramis putrescentibus Salicis triandræ, pentandræ, fragilis, nec non Betulæ et Populi tremulæ in Germania et Fennia.

55. **Cytospora aurora** Mont. et Fr. Notice etc., in Ann. 2, I. p. 347. — Immersa; conceptaculo nullo; cellulis difformibus, circinantibus, atris stromate pulveraceo immersis; ostiolo centrali, nigro, cuticulam perforante; gelatina madefacta rosea, sicca crocea, primo globuliformi, demum late effusa; sporulis rectis oblongis. 1528

Hab. in ramis salicinis in Gallia et Italia.

56. **Cytospora atro-nitens** Chev. Fl. Par. I. p. 431. — Stromate prominente, conico, disco albido plano; peritheciis circinantibus, nigris, demum confluentibus; cirro albido. 1529

Hab. in ramulis emortuis salicinis in Gallia et Belgio.

57. **Cytospora Capreæ** Fuck. Symb. pag. 199, *Valsæ Schweinitzii* Sperm. Nits. Pyr. 191. — Stromatibus gregariis subcutaneo-erumpentibus, in collum crassum poro pertusum attenuatis, radiatim spurie plurilocellatis; sporulis allantoideis curvulis, 4-5 ≃ 1, hyalinis. 1530

Hab. in ramis Salicis Capreæ etc. in Germania et Algeria.

58. **Cytospora xanthosperma** Fr. S. Myc. II. p. 543. — Conceptaculo nullo; cellulis circa columnam centralem circinantibus; disco obtecto; cirro rudi aureo. 1531

Hab. in ramis Salicis in Kamtschatka (Wormskiold), in virgultis Salicis capensis in Somerset-East Africæ austr. (Mac-Owan). — Conceptaculum nullum neque pustulæ supra corticem prominent; cellulæ atræ, cortici interiori innatæ; discus convexus, levis, aeneo-fuscus, epidermide tectus, nec epidermide lacerata

erumpens, centro poro subtili pertusus, dein vero elabens, foveolam profunde umbilicatam relinquens, disco minimo albo, ostiolo atro depresso.

59. **Cytospora fugax** (Bull.) Fr. Syst. Myc. II. pag. 542, *Variolaria fugax* Bull. — Stromate obsoleto, cellulis atris circinantibus, disco plano fuliginoso, cirris tenellis pallidis. 1532

Hab. in ramulis corticatis salicinis et coryleis in Germania, Suecia, Sibiria asiatica. — Pustulæ prominentes, lentiformes, cum epidermide concretæ, subincusæ; cellulis circa columnam centralem circinantibus, gelatina copiosa tumentibus; cirro tenui albido-griseo subhyalino dignoscitur.

60. **Cytospora incarnata** Fr. S. M. II. p. 542. — Loculis subglobosis, atris, in stromate lentiformi proprio nidulantibus; cirris filiformibus incarnato-roseis; sporulis cylindricis, curvulis, hyalinis, obtusis, 12 μ. longis. 1533

Hab. in ramis exsiccatis Carpini et Salicis in Suecia, Germania. — Stroma orbiculatum, depressum, atrum, epidermide pustulato-elevata tectum, collo brevi erumpente terminatum. Cellulæ minutæ, ægre discernuntur, circa centralem circinantes.

61. **Cytospora decipiens** Sacc. *Anthostomatis decipientis* stat. sperm. Nits. Pyr. Germ. p. 302. — Stromatibus sub corticis strato extimo natis, plerumque oblongis, margine repandis, seriatim sæpe ordinatis, multilocularibus, auratis, loculis innumeris, ordine haud perspicuo dispositis; sporulis lineari-cylindricis, tenuissimis, curvatis, in cirros v. glebas rubras v. aureas tandem eructatis. 1534

Hab. in truncis decorticatis corticatisque Carpini, rarius in Acere, Betula, Quercu, Fago in Germania, Gallia, Italia, Britannia et Belgio.

62. **Cytospora Fuckelii** Sacc. *Valsæ Fuckelii* spermog. Nits. Pyr. p. 192 et Fuck. Symb. p. 199. — Stromatibus plurilocularibus, obtuse conicis, poro communi, subrostrato, perforato, in disco convexo, sordido, loculis radiatim ordinatis, inæqualibus, nucleo griseo; cirris?; sporulis cylindraceis, curvatis, simplicibus, 6 ≃ 1,5. 1535

Hab. in ramis Coryli Avellanæ in Italia et Germania.

63. **Cytospora affinis** Sacc. *Valsæ affinis* sperm. Fuck. Symb. p. 199. — Peritheciis circinantibus; sporulis cylindraceis, curvatis, 4 ≃ 1, in sterigmatum ramosorum apicibus insertis. 1536

Hab. in ramis tenuioribus Coryli Avellanæ rarius in Rhenogovia.

64. **Cytospora ocellata** Fuck. F. Nassov. n. 432. — Stromate plano- 1537

conico, nigro, disco niveo, hemisphærico marginato, ostiolo pertuso; peritheciis ovoideis subgelatinosis; cirro tereti curvato, atro-purpureo; sporulis botuliformibus, 5 ≃ 1, in basidiis acicularibus verticillatis, acrogenis, hyalinis, coacervatis, carneolis.

Hab. in cortice Coryli Avellanæ in Nassovia, et Ribis rubri in Gallia.

65. **Cytospora melasperma** Fr. S. M. II. p. 545. — Peritheciis de- 1538
pressis atris; disco erumpente albido; cirro rudi atro.

Hab. in ramis coryleis rarius in Germania et Suecia.

66. **Cytospora guttifera** (DC.) Fr. S. M. II. p. 545, *Sphæria gutti-* 1539
fera DC. Fl. Fr. VI. p. 136, *Psecadia guttifera* Fr. Summa, Bonord. Abh. I. p. 47. — Tuberculo immerso, celluloso, nigro, mox attenuato, in collum erumpens, conicum, obtusum; gelatina globosa albida; sporulis oblongo-cylindraceis.

Hab. in ramis Coryli et Quercus in Gallia, Tiliæ in Germania. — Cellulæ atræ sistunt tuberculum atrum cortici immersum, cui imposita est columna epidermidem perforans. Globulus demum nigrescens.

67. **Cytospora intermedia** Sacc. *Valsæ intermediæ* stat. sperm. Nits. 1540
Pyr. Germ. p. 199. — Stromatibus multilocularibus, loculis radiatim v. sine ordine dispositis farctis, papilla atra, pertusa, singula in disculo cinereo, minimo centrali, rarius duabus apertis; sporulis cylindricis, curvulis, 5-6 ≃ 1,5; sterigmatibus basi hinc inde ramosis, 20-24 μ. plerumque longioribus.

Hab. in ramis tenuioribus Quercus, rarius prope Münster.

68. **Cytospora cœnobitica** Sacc. *Valsæ cœnobiticæ* stat. spermog. Nits. 1541
Pyr. Germ. p. 179. — Stromatibus e basi suborbiculari depresse conicis vel convexis, multilocularibus, loculis radiatim stipatis, collo singulo centrali, raris duobus, late pertusis præditis; sporulis cylindricis, curvulis, hyalinis, in sterigmatibus brevibus, basi ramosis acrogenis, 5-6 ≃ 1.

Hab. in ramis Quercus in Italia bor. et Germania, in radicibus Alni prope Münster.

69. **Cytospora Quercus** Sacc. *Cyt. quercina* West. in Lamb. Fl. Myc. 1542
Belg. an Schw.? — Peritheciis nigris; compressis, exiguis in pustulas conicas minutas congestis; disco erumpente rotundo, griseo-brunneo, poro centrali pertuso; cirro flavo-aureo, denso, vario, sæpe torto; sporulis ovoideo-cylindricis, 2-guttulatis, hyalinis.

Hab. in ramis emortuis Quercus prope Louvain Belgii (Leburton), prope Rouen Galliæ (Malbranche). — An diversa a *Cyt.*

quercina Schw.? — Sporulæ in exempl. gallicis rectiusculæ, cylindraceæ, 3 ≃ 1, basidiis fasciculatis subfurcatis, sporulâ longioribus suffultæ.

70. **Cytospora quercina** Schw. Syn. Amer. bor. n. 2160. — Cellulis 1543
in conceptaculo incusis conico-irregulari nec tam efformato quam in *Cyt. chrysosperma;* ostiolis pluribus difformibus crassis; cirris lutescentibus mediocribus ex ostiolis.

Hab. in lignis ad ignem præparatis, Bethlehem Amer. bor. — Affinis *Cyt. chrysospermæ.*

71. **Cytospora tumida** Lib. Exs. n. 170, Fuck. Symb. I. p. 398. — 1544
Stromatibus erumpentibus, turgidis, intus plurilocularibus; sporulis cylindraceis, curvatis, minutis, 6 ≃ $1^1/_2$, hyalinis.

Hab. in ramis putridis Quercus prope Weinheim Rhenogoviæ et in Arduennis.

72. **Cytospora ventricosa** Sacc. Mich. II. p. 344, *Valsæ ventricosæ* 1545
spermog. Fuck. Symb. Myc. p. 195. — Stromatibus conoideis vel subglobosis, denique liberis, majusculis, intus pluri-locellatis, olivaceo-nigris; sporulis allantoideis, minutis, 4 ≃ 1, hyalinis.

Hab. in ramis denique decorticatis Quercus in Gallia, Germania, Italia.

73. **Cytospora epixyla** Sacc. et Roum. Reliq. Libert. Ser. IV. n. 108. 1546
— Acervulis gregariis, epixylis, prorsus superficialibus, globosis inæqualibus, atris, $^1/_2$–$^3/_4$ mill. diam., intus plurilocellatis; sporulis allantoideis, hyalinis, 4 ≃ 1; basidiis longis, bacillaribus, verticillatis vel vage ramosis.

Hab. in lignis Quercus in Arduennis (Libert). — Ad *Dendrophomam cytosporoidem* vergit.

74. **Cytospora difformis** Schw. Syn. Amer. bor. n. 2159. — Magna, 1547
cellulis in conceptaculo indistincto incusis, tam irregulari et sæpe obliterato ut cellulæ luteæ gyrosæ, materie nigra indurata repletæ, quasi in corticali substantia nidulare videantur, tamen nigro-circumscriptæ; ostiolis confusis crassis, emittentibus cirros rudes, majores incarnato-rubescentes, demum corneos, demum omnino tectos pulvere albo-filamentoso: prorumpit ex rimis corticis et facile maxima est species generis.

Hab. in maximis ramis quercinis ad ignem destinatis, Bethlehem Amer. bor.

75. **Cytospora paradoxa** (Dur. et Mont.) Sacc. *Sphæronæma para-* 1548
doxum Dur. et Mont. Fl. Alg. I. p. 578, *Sphæria ceratosperma* Tode Meckl. 2. p. 53, Moug. et Nestl., *Stirpes Vogesiacæ* exsic.

n. 567! — Erumpens, convexa, sphæriæformis; peritheciis globosis longe rostellatis, stromate fusco-nigro junctis et cinctis; ostiolis spinulosis rectis vel tortuosis, scabris; sporulis minutis, allantoideis; basidiis convergentibus.

Hab. in ramis corticatis Quercuum in Algeria et Gallia.

76. **Cytospora decorticans** Sacc. *Valsæ decorticantis* st. spermog. Nits. Pyr. Germ. p. 194. — Stromatibus conicis, truncatis, papilla in disco albido centrali singula, atra aperta, multiloculari- 1549
bus, loculis minutis radiatim vel sine ordine stipatis; sporulis cylindraceis, curvulis, 4–5 ≃ 1, in sterigmatibus brevibus, 16 μ. plerumque longis; basi crassiuscula dichotome vel trichotome ramosis, acrogenis.

Hab. in ramis exsiccatis Fagi silvaticæ et Carpini in Suecia, Germania, Gallia, Italia, Belgio.

77. **Cytospora ferruginea** Desm. in Wallr. Fl. crypt. n. 3632. — 1550
Peritheciis 15–20, extus albidis circinantibus coacervatis in conceptaculo atro, crasso, orbiculari, planiusculo, hypophlœode; ostiolo centrali epidermidem perforante punctique albi instar prominulo, cirris ferrugineis; sporulis perexiguis ovoideis.

Hab. in ramis fagineis languentibus rarius in Gallia, Belgio et Germania. — Var. **chionostoma** Mont. Ann. Sc. Nat. 2, XX. p. 373. — Erumpens, cæspitoso-confluens vel striæformis; conceptaculis denudatis, globosis, atris; peritheciis circinantibus membranaceis, pallidis, ostiolo fusco, aureola nivea cincto. — Ad ligna emortua denudata, Lugduni Galliæ (Montagne).

78. **Cytospora durella** Sacc. *Valsæ duriusculæ* st. spermog. Nits. 1551
Pyr. Germ. p. 234. — Stromatibus e basi orbiculari in conulum sensim attenuatis, subcutaneo-erumpentibus, multilocularibus, loculis numerosissimis, minutissimis, radiatim dispositis, poro in disco orbiculari, exiguo, niveo-centrali, singulo apertis; sporulis minutissimis, cylindricis, subrectis, 3 ≃ 1, in sterigmatibus, basi ramosissimis, tenuissimis, 14 μ. longis, acrogenis ac tandem in cirros hyacinthinos rubros protrusis.

Hab. in ramis corticatis Fagi silvaticæ, Heimberg Helvetiæ, ubi legit Otth.

79. **Cytospora duriuscula** Sacc. Mich. II. p. 627. — Stromatibus co- 1552
nico-pulvinatis, 1 mill. diam., (excepto disco) tectis, vel cortice secedente subsuperficialibus, fuscis, disco minuto albo-pruinoso, intus pallidioribus, spurie plurilocularibus; sporulis allantoideis, leniter

curvis, 2,5-3 ≃ 0,5-1, hyalinis; basidiis bacillaribus, paulo longioribus.

Hab. in cortice emortuo Fagi, Lyon Galliæ (Therry). — Species elegans et distincta, forte sistens statum spermogonicum *Valsæ duriusculæ*.

80. **Cytospora pustulata** Sacc. et Roum. Mich. II. p. 627. — Conceptaculis plurilocularibus, intus griseis, subcutaneo-erumpentibus; sporulis allantoideis, 4-4½ ≃ ¾, curvulis, hyalinis. 1553

Hab. in ramis corticatis fagineis, Saintes Galliæ (Brunaud). — Spermogonium, ut videtur, *Valsæ pustulatæ*.

81. **Cytospora Juglandis** (Schum.) Rabenh. Deutsch. Crypt. Fl. n. 1344, *Nœmaspora Juglandis* Schum. Saell. II. p. 178. — Peritheciis circinantibus, epidermide bullato-inflata tectis; cirris guttiformibus vel elongatis, crassis, atris. 1554

Hab. in ramis corticatis Juglandis in Germania. — «An *Melanconii* forma?».

82. **Cytospora juglandina** Sacc. Mich. II. pag. 264. — Stromatibus atris, subcutaneis, epidermide quandoque fissa tectis, plurilocularibus; sporulis cylindraceis, rectiusculis, 6-7 ≃ 1, basidiis filiformibus, 10-15 ≃ 1, suffultis; cirris ..... non visis. 1555

Hab. in cortice ramorum Juglandis regiæ, Padova Italiæ bor. — Probe diversa a *Cyt. Juglandis* Rabh.

83. **Cytospora elegans** Ces. Flora 1854, pag. 205, Kl. Herb. Myc. n. 1868. — Tecta vel erumpens; stromate obsoleto; peritheciis 6-10; sporulis ..... (non descriptis). 1556

Hab. in ramis Platani, socia *Massaria Platani*, Vercelli Italiæ bor.

84. **Cytospora Platani** Fuck. E. F. N. n. 434, p. 52. — Peritheciis elongatis, numerosis, nigris, gelatinosis epidermidem tuberculoso-inflantibus, conceptaculo nullo, cirris tenuissimis, flexuosis, longis, candidis; sporulis allantoideis, 6-8 μ. longis. 1557

Hab. in ramis Platani junioribus pr. Wiesbaden Germaniæ.

85. **Cytospora personata** Fr. *Valsæ Auerswaldii* stat. spermog. Nits. Pyr. Germ. p. 225. — Stromatibus e basi orbiculari conicis, truncatis vel fere hemisphæricis, pustulatis, disco orbiculari, albido, poro vulgo unico, spurie plurilocularibus; sporulis elongatis, curvulis, 6-8 ≃ 2, tandem in cirros rubro-hyacinthinos espulsis. 1558

Hab. in ramis Rhamni Frangulæ, rarius in Fago, Betula, Malo et Salice caprea in Germania, Fennia, Italia bor.

86. **Cytospora Acharii** Sacc. *Eutypæ Acharii* stat. spermog. Nits. 1559

Pyr. Germ. p. 130. — Peritheciis in stromatibus longe lateque effusis immersis, sessilibus, e basi ovali elliptica vel suborbiculari convexis, depressis, atris, plerumque dense aggregatis, uniloculari-bus; sporulis cylindricis curvulis, hyalinis, in sterigmatibus brevi-bus, basi ramosis, solitarie acrogenis, tandem in cirros albidos protrusis.

Hab. in ramis crassioribus decorticatis Fagi, Pseudopla-tani, Populi, Carpini, Pruni in tota Europa et Amer. bor.

87. **Cytospora flavo-virens** Sacc. *Eutypæ flavo-virescentis* st. sperm. 1560
Nits. Pyr. Germ. p. 139. — Peritheciis in stromatibus concolori-bus immersis, e basi suborbiculari depresse conicis, parietibus car-nosis; sporulis cylindricis, curvatis, hyalinis, subsessilibus, adglu-tinatis, denique cirrose protrusis.

Hab. in corticibus et ligno Fagi, Quercus, Carpini, Sa-licis, Aceris, Pruni, Rhamni, Ribis, Populi, Rosæ, Be-tulæ etc. in tota Europa.

88. **Cytospora leucosperma** (Pers.) Fr. S. M. II. p. 543, *Nœmaspora* 1561
leucosperma Pers. Syn. p. 108. — Stromate obsoleto, cellulis ni-gris circinantibus, confluentibus, disco plano albido, cirro albo.

Hab. ad ramos Prunorum, Fagi, Aceris, Carpini, Ro-sæ, Aquifolii in Suecia, Germania, Gallia, Italia, Austria, Amer. bor. — In forma **Aceris campestris** vidi: stromata subunilocularia, sed majuscula et sinuosa; sporulas allantoideas, 3,5-4 ≃ 0,5-1; ba-sidia verticillato-ramosa, longiuscula. — Vix nisi cirri colore a proximis differt. Cellulæ in corpus lobatum nigro-marginatum con-fluunt; discus variat albus, lutescens, ostiolo centrali subprominente.

89. **Cytospora ceratophora** Sacc. Mich. I. p. 519. — Stromatibus de- 1562
presso-conicis, subcutaneo-erumpentibus, plurilocularibus, olivatro-farctis; sporulis botuliformibus, 4-5 ≃ 1, hyalinis, basidiis simpli-cibus vel verticillato-ramosis, acicularibus, 20-50 μ. altis suffultis.

Hab. in ramis corticatis Quercus, Sorbi, Castaneæ, Fra-xini in Italia, Austria, Gallia. — *Valsæ ceratophoræ* spermog.

90. **Cytospora ambiens** Sacc. Mich. I. p. 519, *Valsæ ambientis* sperm. 1563
Nits. Fuck. — Stromatibus conico-depressis, gregariis, subcutaneo-erumpentibus, atro-griseis, disco pallidiore; sporulis botuliformi-bus, 6 ≃ 1, hyalinis, sterigmatibus acicularibus, fasciculatis fultis.

Hab. in ramis corticatis Aceris, Ulmi, Fagi, Populi, Co-ryli, Castaneæ, Rubi, Betulæ, Fraxini, Quercus in Ita-lia, Germania, Gallia, Austria, America australi.

91. **Cytospora chilensis** Mont. Syll. n. 922, Fl. Chil. VII. p. 478, t. 9, 1564

f. 11. — Maculis pallescentibus; peritheciis crassiusculis in cortice interiore nidulantibus subsimplicibus, intus amfractuoso-columellatis, disco erumpente ferrugineo; sporophoris inter cellulas parietales vesiculosas elongatis, sporulas lineares altero fine incurvas fulcientibus.

Hab. ad cortices arborum, in provinciis meridionalibus Chiles (Gay).

92. **Cytospora hysteriformis** (Pr.) Sacc. *Hypoplasta Hysteriæformis* Preuss F. Hoyersw. n. 288. — Superficialis extra carbonacea atra, intus subcarnosa alba, venis atris penetrata; peritheciis oblongis longitudinaliter et irregulariter plicatis, atris, in carne perithecii radiis atris e peripheria oriundis; nucleo sporularum mucoso albo; sporulis fusiformibus utrinque rotundatis, subcurvatis, albis, numerosis, continuis. 1565

Hab. in ligno arborum frondosarum (in dejecta fibula lignea, Wäschklammer) in Hoyerswerda.

93. **Cytospora Curreyi** Sacc. Mich. II. p. 265, *Valsæ Curreyi* stat. sperm. Nits. Pyr. Germ. p. 201. — Stromatibus e basi orbiculari, rarius ovali conico-truncatis vel fere hemisphæricis, protuberantibus, lateribus peridermio stellato-fisso, adhærente tectis, in disculo albido papilla poro minutissimo-pertusa, unica, centrali vel duabus tribusve instructis, multilocularibus, loculis numerosis, radiatim vel sine ordine dispositis; sporulis cylindricis, curvulis, 3–5 ≃ 1; sterigmatibus subsimplicibus, 20–24, immo 32 μ. longis. 1566

Hab. in ramis Laricis, Abietis excelsæ et Pini silvestris in Britannia, Gallia, Germania, Italia.

94. **Cytospora Abietis** Sacc. *Cyt. Pini* Fuck. nec Desm. *Valsæ Abietis* stat. sperm. Nits. Pyr. Germ. p. 186. — Stromatibus exiguis, collo crasso rotundato vel truncato, ex griseo vel luteo fuscescente poroque angusto unico, rarius pluribus, aperto instructis, multilocularibus, loculis minimis, sine ordine denseque stipatis, cirris globulosis sordide flavis; sporulis exilissimis, cylindricis, curvulis, 3–4 ≃ 1; sterigmatibus 12–16 μ. longis, parce ramosis. 1567

Hab. in ramis corticatis Abietis excelsæ et Laricis in tota fere Europa.

95. **Cytospora Friesii** Sacc. *Valsæ Friesii* stat. spermog. Nits. Pyr. Germ. p. 203. — Stromatibus phyllogenis, exiguis, conico-truncatis, parte inferiore folii parenchymati immersa, superiore erumpente, disculo instructis ex cinereo nigrescente, papilla minutissima, atra, poro angustissimo pertusa, singula, raro duabus ornatis; 1568

sporulis cylindricis, curvulis, 4-5 ≃ 1; sterigmatibus brevibus, parce ramosis.

Hab. in ramulis Abietis pectinatæ in Gallia, Germania, Belgio.

96. **Cytospora Kunzei** Sacc. *Valsæ Kunzei* stat. sperm. Nits. Pyr. Germ. pag. 230. — Stromatibus poro in disco subrotundo, luteolo unico, centrali, rarius pluribus apertis, multilocularibus, loculis radiatim dispositis; sporulis cylindricis, curvulis, 5 ≃ 1, in cirros lutescentes tandem propulsis; sterigmatibus breviusculis, 20 μ. longis, parce ramosis. 1569

Hab. in ramis corticatis Abietis pectinatæ et excelsæ in Germania, Gallia, Helvetia et Britannia.

97. **Cytospora pithyophila** West. Bull. Soc. Belg. t. V. n. 1, cum icone. — Stromatibus subcutaneis, conicis, disco erumpente atro, poro centrali pertuso; cirro albido; sporulis perexiguis, 2,5-3 ≃ 1. 1570

Hab. in ramis Abietum in dumis Blankenberghe Belgii.

98. **Cytospora Pini** Desm. Nouv. Not. 1843, p. 46, *Cyt. pinicola* West. Exs. n. 933. — Immersa, conceptaculo nullo, loculis nigris oblongis, numerosis irregulariter circinantibus, disco erumpente plano fuligineo; ostiolis prominulis, atris, nitidis; cirris sulfureis, dein citrinis; sporulis (ex Nitschke) cylindraceis, subrectis, minimis, 4 ≃ 1; basidiis ramulosis filiformibus, 24 μ. longis. 1571

Hab. in cortice truncorum Pini silvestris in Gallia et Belgio. — Spermogonium *Valsæ Pini*. Sec. West. sporulæ *Cyt. pinicolæ* suæ habent longitudinem 6,5 μ.

99. **Cytospora Saccardiana** Roum. et Therry Rev. Myc. IV. p. 153. — Pustulis convexo-applanatis, naviculiformibus, numerosis et approximatis; stromatibus oblongis, irregularibus, pluri- (2-6-)-locularibus, erumpentibus; sporulis minutissimis cylindricis, obtusis, leniter curvatis, in cirros ochraceo-albos protrusis, 4 μ. longis. 1572

Hab. in ligno denudato Pini silvestris in Gallia. — Sec. auctores satis differt a *C. Pini* et *C. pinicola*.

100. **Cytospora Mougeotii** Lév. in Moug. Vog. n. 1272. — Stromatibus gregariis vel subsparsis, innatis leniterque prominulis, conicis, minutis, intus pluricellularibus griseis, disco angusto atro; sporulis allantoideis, hyalinis, 5-7 ≃ 0,7-1, basidiis duplo- vel triplo longioribus suffultis. 1573

Hab. ad faciem internam corticis truncorum Abietis pectinatæ in Vogesis (Mougeot).

101. **Cytospora Dubyi** Sacc. *Valsæ Dubyi* stat. spermog. Nits. Pyr. 1574

Germ. p. 187. — Stromatibus e basi orbiculari depresse convexis, innato-erumpentibus, multilocularibus, loculis circinatim dispositis, minutis, disco exiguo, albido-cinereo poroque unico, centrali instructis; sporulis cylindricis, curvulis, 5 ≃ 1; sterigmatibus brevisculis, subsimplicibus, tenuissimis.

Hab. in ramulis et foliis Juniperi communis in Helvetia et Germania.

102. **Cytospora cenisia** Sacc. *Valsæ cenisiæ* stat. sperm. Nits. Pyr. 1575
Germ. p. 185. — Stromatibus ampulliformibus, nunc in collum, poro unico pertusum, conico-attenuatis, nunc vero collo 3-5-angulari, poris circa medium majorem, 3-5 minoribus pertusis prædito, pauci-locularibus, locellis, 4-6, radiatim dispositis, majusculis; sporulis cylindricis, hyalinis, nonnihil curvatis, 5-7 ≃ 1,5; sterigmatibus subsimplicibus, 16-24 μ. long.; cirris filiformibus, pallide flavis.

Hab. in cortice Juniperi communis et virginianæ in Italia, Germania, Fennia, Amer. bor.

103. **Cytospora Taxi** Sacc. *Valsæ Taxi* stat. spermog. Fuck. Symb. 1576
Myc. App. I. p. 316. — Stromatibus pustulatis, 2-3 mill. latis, convexis seu lato-obtuso-conicis, sæpe confluentibus, poro centrali minuto in disco orbiculari, plano, sordido, intus multilocularibus, corneis, griseis; cirris longissimis, piliformibus, contortis, aureis; sporulis cylindraceis, curvatis, continuis, 8 ≃ 1,5.

Hab. in ramis siccis corticatis Taxi baccatæ, Reichartshausen in Rhenogovia.

104. **Cytospora Thujæ** Sacc. et Ell. Mich. II. p. 573. — Stromatibus 1577
emergentibus, nigris, conoideis, intus paucicellularibus; ostiolis prominulis, brevibus sulcatis; sporulis allantoideis, 5 ≃ 1-1,3, hyalinis, basidiis paulo longioribus, subfusoideis, simpliciter parceque verticillatis suffultis.

Hab. in cortice interiore Thujæ, Newfield, New Jersey Amer. bor. (Ellis). — A *Cyt. Pini* satis differre videtur, an e loco?

105. **Cytospora parva** B. et C. North Amer. Fungi n. 460. — Pustulis 1578
minutis, apice tantum punctiformi erumpentibus; peritheciis globosis; sporulis oblongis, angustis, enucleatis, 7 μ. longis.

Hab. in ramis Robiniæ in Carolina inf. Amer. bor.

106. **Cytospora Robiniæ** Schw. Syn. Am. bor. n. 2157. — Tuberculis 1579
majusculis, fusco-badiis, quadrato-elevatis ex epidermide prorumpentibus stellatim fissa, multis aggregatis cingentibus ramulos, apice subostiolato irregulariter depresso; intus nigrescit; cirris pallidis.

Hab. non rara in ramulis Robiniæ in Amer. bor., vix *Cyt. coccinea* Fr.; nam cirrus omnino aliter coloratus.

107. **Cytospora coccinea** (Reb.) Fr. S. M. II. p. 541, *Nemaspora coccinea* Reb. Neom. p. 339. — Immersa; ostiolo subprominente nigrescente; cirris filiformibus coccineis. 1580

Hab. in ramis siccis Robiniæ Pseudacaciæ in Germania.

108. **Cytospora orthospora** B. et C. North Amer. Fungi n. 458. — Pustulis parvis, demum erumpentibus planis; peritheciis basi plano-dilatatis; sporulis lineari-oblongis, 10 μ. longis. 1581

Hab. in ramis Robiniæ in Pensylvania et New Jersey Americæ borealis.

109. **Cytospora Sarothamni** Sacc. *Eutypæ macrosporæ* stat. sperm. Nits. Pyr. Germ. p. 145. — Stromatibus tuberculiformibus depresse convexis, atris, sessilibus, sparsis vel dense congregatis, uniloculariboris, vertice tandem poro vel rima minuta dehiscentibus; sporulis cylindricis, nonnihil curvatis vel subrectis, subhyalinis, in sterigmatibus brevibus, dense cæspitosis, acrogenis, 7–10 = 2. 1582

Hab. in ramis crassioribus Sarothamni vulgaris prope Münster Germaniæ.

110. **Cytospora Syringæ** Sacc. *Valsæ Syringæ* stat. spermog. Nits. Pyr. Germ. p. 189. — Stromatibus exiguis, per peridermii rimas minutas ac longitudinaliter directas erumpentibus, multilocularibus, loculis confertissime et sine ordine stipatis, minutissimis, foramine plerumque unico, in disco ex griseo sordide fuscescente centrali apertis; sporulis cylindricis, curvulis, 5 = 1; sterigmatibus densissime cæspitosis, subramosis, tenuibus, usque ad 60 μ. longis. 1583

Hab. in ramis Syringæ vulgaris in Germania et Italia bor.

111. **Cytospora minuta** Thüm. in Myc. Univ. n. 890. — Pseudoperitheciis (stromatibus?) gregariis, erumpentibus, elevatis, hemisphæricis, primo tectis, demum mox liberis, atris, cirros candidos propellentibus; sporulis minutis, cylindraceis, rectis, utrinque obtusatis, hyalinis, 4–5 = 1–1,5. 1584

Hab. in ramulis emortuis, præcipue tenuibus sed adhuc pendulis, Fraxini excelsioris, Bayreuth Bavariæ.

112. **Cytospora elæina** Mont. Cent. VI. p. 87, in Ann. 3. XII. p. 305, et Syll. n. 926. — Peritheciis gregariis, cortice tectis, globoso-depressis, pachydermaticis, subtus collabenti-umbilicatis, intus cellulosis, atro-farctis; ostiolo erumpente nigro; cirro crasso, atro, nitido; sporophoris apice fasciculato-ramosis, 40 μ. longis; sporulis minutissimis achromaticis, 5 = 2. 1585

Hab. in ramulis Oleæ europææ, Montaud-lez-Miramas Galliæ australis (Castagne).

113. **Cytospora extensa** Sacc. Mich. II. p. 344. — Stromatibus gregariis, peridermio tectis, globulosis, intus pluri-locularibus, atris; disco vix erumpente; sporulis allantoideis, curvulis, utrinque rotundatis, 5 ≃ 1, hyalinis, basidiis fasciculatis e strato proligero ferrugineo enatis, acicularibus, 15 ≃ 1, suffultis. 1586

Hab. in ramis corticatis Rhamni alpinæ in Gallia australi. — Forte *Eutypellæ extensæ* (Fr.) spermogonium.

114. **Cytospora epileuca** Sacc. Mich. II. p. 265. — Stromatibus globoso-depressis, initio epidermide velatis, dein suberumpentibus, disco complanato, albo-furfurello, 2-4-locularibus; sporulis allantoideis, 9-11 ≃ $1\frac{1}{2}$-$1\frac{3}{4}$, utrinque obtusiusculis, curvatis, nubilosis, hyalinis, basidiis fasciculatis, simplicibus, filiformibus, 25-30 ≃ 1, e basi prolifera flavicante oriundis suffultis. 1587

Hab. in ramis corticatis Rhamni catharticæ in Italia bor.

115. **Cytospora Ceanothi** Schw. Syn. Amer. bor. n. 2158. — Conceptaculo nullo; cellulis fuligineis circinantibus in massa corticali, formante tuberculum ovatum, subelevatum sub epidermide; disco in centro inæquabili, cirro sordide albo deciduo; gelatina in cellulis cornea indurata; minutissima, vix semilineari diametro, sed frequentissime prorumpens ex corticis rimis. 1588

Hab. frequens in virgultis emortuis Ceanothi, Bethlehem Americæ bor.

116. **Cytospora ericeti** Sacc. Fungi Gall. Ser. VI. n. 2252. — Peritheciis hinc inde aggregatis, subcutaneo-erumpentibus, papillatis, atris, $\frac{1}{4}$ mill. d.; sporulis cylindricis, curvis, 11-14 ≃ 2, hyalinis; basidiis bacillaribus brevioribus. 1589

Hab. in trunco corticato Ericæ, Rouen Galliæ (Malbranche).

117. **Cytospora Ribis** Ehrenb. Sylv. Berol. p. 28, Fr. S. M. II. p. 545. — Stromate crasso, atro, grumoso; ostiolo rudi ex epidermide demum emerso; cirro rudi aureo; sporulis oblongo-allantoideis, 3 ≃ 1; basidiis longis ramosis. 1590

Hab. in ramis Ribis rubri in Germania, Gallia, Belgio. — Forte spermogonium *Eutypellæ Brunaudianæ*.

118. **Cytospora atrovirens** Fr. S. M. II. p. 545. — Stromate membranaceo, disco erumpente; cirris nigro-viridibus. 1591

Hab. in ramis alneis in Kamtschatka (Wormsk.), et in ramis Corni albæ in Belgio (Limminghe). — Cellulæ in orbem depressum collectæ, membranula cinctæ, gelatina nigro-viridi glomerata

vel per multas spiras demum inspissatas diaphanas varie flexas e centro pertuso erumpente.

119. **Cytospora chloroglæa** B. et C. North Amer. Fungi n. 464. — Pustulis oblongis hysteriiformibus, apice planis; sporulis allantoideis, curvulis, minutissimis, chlorinis. 1592

Hab. in ramis Corni sericæ in montibus New York Am. bor.

120. **Cytospora Tiliæ** Sacc. Mich. I. p. 519. — Conceptaculis pluriloc ularibus, innato-erumpentibus, laxe gregariis, 1-2 mill. diam., stromate flavo interspersis; loculis inæqualibus griseis; sporulis botuliformibus, 7-8 ≃ 1, hyalinis, in cirros varios succineos denique expulsis. 1593

Hab. in ramis Tiliæ europææ prope Rouen Galliæ (Letendre). — A *Cyt. carphosperma* Fr. valde diversa.

121. **Cytospora carphosperma** Fr. S. M. II. p. 543. — Stromate obsoleto, cellulis nigris circinantibus, disco sordido; cirro citrino, dein subcroceo; sporulis minutissimis, allantoideis, 5-6,5 μ. longis. 1594

Hab. in ramis Tiliæ europææ et Piri Mali in Suecia, Germania, Italia, Austria, Gallia. — Pustulæ orbiculatæ, depressæ, nigræ, in cortice interiore fibroso nidulantes, stromate ceraceo tegente, formantes discum erumpentem rotundum vel ellipticum, planum, sordidum, sed expallentem, centro ostiolo nigro perforatum; dissectæ monstrant cellulas numerosas, oblongas, difformes, circa perithecium centrale globosum aggregato-circinantes, plerumque cera concolori farctas, nullo stromate cinctas. Ostiolum nunc porosum, nunc papilliforme. Gelatina straminea, sicca lutescens.

122. **Cytospora Gordoniæ** B. North Amer. Fungi n. 463. — Pustulis minutis immersis; sporulis brevibus, fortiter curvatis, utrinque angustioribus. 1595

Hab. in pedunculis Gordoniæ lasianthæ in Carolina superiore Americæ bor.

123. **Cytospora Aquifolii** Fr. in Duby Bot. Gall. II. p. 725. — Peritheciis nigris circinantibus, conceptaculo nullo, disco convexo griseo, ostiolo centrali prominulo aterrimo. 1596

Hab. ad corticem Ilicis in monte Vogeso (Mougeot).

124. **Cytospora Hippophaës** Thüm. F. Austr. n. 282. — Peritheciis (stromatibus?) sparsis, magnis, epidermide tectis, demum erumpentibus, atris; sporulis cylindraceis, rectis, hyalinis, minimis. 1597

Hab. in ramis truncisque emortuis Hippophaës rhamnoidis prope Krems Austriæ infer.

125. **Cytospora ilicina** Sacc. *Valsæ Aquifolii* stat. sperm. Nits. Pyr. 1598

Germ. p. 231. — Stromatibus subcutaneo-erumpentibus, pustulatis, multilocularibus, loculis minutissimis numerosis, monostiche stipatis, poro in disculo orbiculari medio unico apertis; sterigmatibus subsimplicibus, eseptatis, 20-24 ≃ 2; sporulis cylindricis, curvulis, vel subrectis, subhyalinis, 5-7-8 ≃ 1.

Hab. in ramis emortuis Ilicis Aquifolii prope Münster Germaniæ.

II. *Foliicolæ et fructicolæ.*

126. **Cytospora Pinastri** Fr. S. M. II. p. 544. — Stromatibus innato-erumpentibus conicis, plurilocularibus, loculis nigris circinantibus, disco subrotundo tuberculoso atro, cirro rudi lacteo; sporulis allantoideis, 5 ≃ 1,3, hyalinis; basidiis fasciculatis, acicularibus, 20-25 ≃ 1. 1599

Hab. in foliis Pini silvestris, Abietis excelsæ et pectinatæ etc. in Gallia, Suecia, Germania, Italia, Belgio. — Loculi in ipso folii parenchymate nidulant, irregulares. Discus valde prominens, opacus, rugosus, dein planiusculus cinereo-niger, ostiolo valde prominulo.

127. **Cytospora Oleæ** De Not. Micr. Dec. 5, n. VIII. — Epiphylla, maculis fuscescentibus innata, punctiformis; stromatibus orbicularibus, 15-20-locellatis, loculis seu peritheciis convergentibus, compressis, subpyramidatis; ostiolis minutis, pertusis, junctis; nucleo albido; sporulis cylindraceis, minutissimis, utrinque obtusiusculis, hyalinis. 1600

Hab. in foliis siccis Oleæ europææ prope Genova Ital. bor. — Ab affini *C. foliicola* peritheciis magis discretis, sporulis majoribus distinguenda.

128. **Cytospora phyllogena** Penz. et Sacc. Fl. M. Gener. n. 119. — Conceptaculis hypodermicis, dein prorumpentibus, plurilocularibus, nigris, disco albo; sporulis cylindricis, continuis, rectis vel leniter curvulis, utrinque rotundatis, 10-12 ≃ 2,5-3, hyalinis, eguttulatis, muco abundanti insitis; basidiis obsoletis. 1601

Hab. in foliis putrefactis Rubi sp. in Monte Generoso. — A *C. Laurocerasi* et *C. foliicola* sporulis longioribus, basidiis obsoletis diversa.

129. **Cytospora foliicola** Libert. Exs. n. 64. — Stromatibus subcutaneo-erumpentibus, conico-depressis, atris, paucilocularibus; disco pallido; poro communi centrali; cirro albido; sporulis botuliformibus, 7 ≃ 1, hyalinis, basidiis filiformibus, fasciculatis æquilongis fultis. 1602

Hab. in foliis Hederæ, Vincæ, Aceris, Quercus, Evonymi, Cratægi, Smilacis in Germania, Gallia, Italia, Algeria. — Sec. Desm.: sporulæ utrinque obtusæ, 10 μ. long. — Var. **Kalmiæ** Sacc. Mich. II. p. 142 (*Ceuthospora*): stromate pulvinato-conico, intus paucilocellato, $^1/_2$–$^3/_4$ mill. diam.; sporulis cylindroideis, 10–12 ≃ $1^1/_2$–$1^3/_4$; basidiis teretibus, 5–6 μ. long. subcurvis suffultis. In pag. inf. foliis Kalmiæ latifoliæ in Carolina.

130. **Cytospora Laurocerasi** Fuck. En. F. Ness. n. 437. — Stromate conico, obtuso, nigro; disco albo; cirris longis, rubescentibus; sporulis botuliformibus, 6-8 ≃ 1, in sterigmatibus acicularibus, verticillato-ramosis, triplo longioribus acrogenis. 1603

Hab. in foliis putrescentibus Pruni Laurocerasi in Germania, Gallia, Italia, Austria. — ***ramulorum** Sacc.: sporulis allantoideis, 5–6 ≃ 1, basidiis breviusculis ramulosis suffultis. — In ramulis Pruni Laurocerasi in Gallia.

131. **Cytospora Metrosideri** Rabenh. Hedw. 78, p. 115. — Hypophylla; peritheciis 5–6 connatis, in foliorum parenchymate nidulantibus, epidermide tectis, demum nudis; disco albido, cirris tenuibus, luteolo-pallidis; sporulis bacilliformibus, leviter curvatis, hyalinis, ad 6 μ. longis. 1604

Hab. in foliis Metrosideri, Auckland (H. Krone).

132. **Cytospora piricola** West. in Bull. Ac. Belg. t. XIX. — Peritheciis flavicantibus, compressis, exiguis, pustulas subrotundas, immersas, disco albido, poro pertuso coronatas formantibus; cirro rubro-carneo, torto; sporulis perexiguis, ovoideo-cylindricis, 2-guttulatis. 1605

Hab. in fructibus Piri japonicæ, Namur Belgii.

133. **Cytospora palmicola** B. et C. Exot. Fungi, Schweinitz. Herb. p. 280. — Nigra nitida, epidermide tecta; loculis superficie stromatis nidulantibus globosis; sporulis lineari-oblongis, curvulis, minutissimis, 2,8–3 μ. long. 1606

Hab. in fructibus Cocos nuciferæ, St. Kitts.

III. *Herbicolæ.*

134. **Cytospora tithymalina** Pass. et Beltr. F. Sicul. n. 29. — Conceptaculis conoideis, subcutaneis plurilocularibus, disco planiusculo fusco per epidermidem fissam erumpenti; sporulis minutissimis, cylindricis, curvulis, hyalinis, 3–$3^1/_2$ μ. long., basidiis acicularibus longiusculis fultis. 1607

Hab. in ramis aridis Euphorbiæ dendroidis(?) cum *Leptosphæria sacculo*, Monostalla Siciliæ.

135. **Cytospora Libertella** Dur. et Mont. Fl. Alg. I. p. 316, sec. Syll. n. 924. — Peritheciis tenuibus, in cortice interiore nidulantibus, simplicibus, anfractuosis; sporophoris longis, sporulisque linearibus, curvatis, hyalinis; cirris..... 1608

Hab. in caulibus emortuis Salsolæ oppositifoliæ, Mostaganem Algeriæ (Durieu).

IV. *Species imperfecte descriptæ.*

136. **Cytospora Dahliæ** Peyl in Lotos 1857, p. 67, t. II. f. 11. — In Bohemia. 1609

137. **Cytospora Peylii** Rabenh. in Lotos 1857, p. 28, n. 6, f. 6. — In Bohemia orient. 1610

138. **Cytospora Sphærula** Duby Bot. Gall. II. p. 725. — In Gallia. 1611

139. **Cytospora endophylla** Fr. Summa p. 413. — In foliis Vaccinii Vitis ideæ in Suecia. 1612

140. **Cytospora laxa** B. et C. North Amer. F. p. 80. — In Calycantho in Carolina inf. 1613

141. **Cytospora coryneoides** B. et C. North Amer. F. p. 80. — In Vite Labrusca Amer. bor. 1614

142. **Cytospora pustulata** B. et C. North Amer. F. p. 80. — In radicibus Quercus albæ Amer. bor. 1615

143. **Cytospora Micheneri** B. et C. North Amer. F. p. 80. — In Fraxino Amer. bor. 1616

144. **Cytospora Ailanthi** B. et C. North Amer. F. p. 80. — In Ailantho Amer. bor. — Hæc species et quatuor præcedentes sporulis allantoideis instructæ sunt, sed parum distinctæ. 1617

CEUTHOSPORA Greville Sc. Cr. Flor. n. 9. (Etym. *ceutho* abscondo, et *spora*). — Stroma innato-erumpens, conico-truncatum, subcoriaceum, intus pluri-loculare, rarius sub 1-loculare; ostiolis in unum centrale sæpe confluentibus. Sporulæ oblongo-cylindraceæ, sæpius rectiusculæ, hyalinæ, stipitatæ, subinde cirrose expulsæ. — A *Cytospora* stromate sæpe duriore et magis regulari sporulisque rectiusculis vix differt. An satis? — Species nonnullæ *Coccoboli* et *Helicoboli* Wallrothianæ a beato Rabenhorst ad *Ceuthosporam* ductæ inter genera dubia relegandæ sunt.

1. **Ceuthospora phacidioides** Grev. Sc. Cr. Flor. V. tab. 253, *Phacidium multivalve* Schmidt., *Xyloma multivalve* DC., *Sphæria He-* 1618

derce Fr. var. β. *Sphæria bifrons* Sow., *Cryptosphæria bifrons* Grev. Fl. — Stromatibus sparsis, innatis, depressis, piceis, nitidis e 3-7 peritheciis dense coalitis compositis, ostiolo in centro disci, albo furfuraceo, epidermide laciniata cincto; sporulis teretiusculis, rectis, obtusis; cirro albido.

Hab. in foliis Ilicis Aquifolii in Gallia, Britannia, Germania, Italia, Austria. — F. **Citri** Penz. Mich. II. p. 433, *Chætopyrena Hesperidum* Pass.: peritheciis hypodermeis, binis, ternis vel pluribus dense coalitis, apice paullum setulosis; basidiis cylindraceis, simplicibus vel parce ramosis, hyalinis, 9-10 ≃ 3,5-4; sporulis numerosissimis, cylindraceis, rectis, utrinque apice rotundato, 13-14 ≃ 3,5-4, hyalinis. — In foliis putridis Citrorum, Porto Maurizio Liguriæ occid. (G. Gentile), Coimbra Lusitaniæ (Mesnier).

2. **Ceuthospora calathiformis** Fuck. Symb. p. 398. — Peritheciis carbonaceis, minutis, irregularibus, astomis, 4 ≃ 12 in acervulum $^1/_2$ lin. diam., densum, orbicularem congestis, marginalibus majoribus prominulis, atris; sporulis cylindraceis, rectis, 10-14 ≃ 2. 1619

Hab. in ramulis siccis Salicis auritæ, rarius in Rhenogovia.

3. **Ceuthospora glandicola** S. R. B. Misc. Mycol. p. 19. — Stromatibus sparsis, e basi subplana depresse conicis, subsuperficialibus, atris, nitidulis, $^1/_2$ mill. lat. intus 2-4-loculatis; contextu minute celluloso rufo-fusco; sporulis fusiformibus, curvulis, utrinque acutis, hyalinis, 15-17 ≃ 1,5; basidiis obsoletis. 1620

Hab. in glandibus emortuis quercinis prope Bruxelles Belgii.

4. **Ceuthospora subcorticalis** Fuck. Symb. p. 398. — Peritheciis carbonaceis, fragilissimis, minutis, globosis, 4-12, in stromate lenticulari, rotundato, adnato, aterrimo, circinante dispositis; ostiolis prominulis, punctiformibus; sporulis anguste cylindraceis, rectis, obsolete (et spurie?), 2-3-septatis, 10 ≃ 2, hyalinis, in pulvere albo expulsis. 1621

Hab. in cortice interiore Betulæ albæ in Rhenogovia.

5. **Ceuthospora Cookei** Thüm. F. Amer. n. 17. — Stromatibus amphigenis sed plerumque hypophyllis, pustulas minutissimas, dense gregarias, subprominentes, atras, hemisphæricas formantibus; sporulis cylindraceis, utrinque rotundatis vel vertice leniter acutatis, simplicibus, enucleatis, hyalinis, 15 ≃ 4. 1622

Hab. ad folia decidua Cerasi carolinianæ, Aiken in Carol. austr. Amer. bor. (H. W. Ravenel). — *C. phacidioidi* Grev. proxima sed diversa.

6. **Ceuthospora Oleæ** Kalch. et Cooke Grev. 1880, p. 59. — Epiphyl- 1623

la; maculis orbicularibus, fuscis; peritheciis depressis, rimose dehiscentibus; sporulis cylindricis, utrinque obtusis, hyalinis, 30 ≃ 3,5.

Hab. in foliis Oleæ capensis in Africa australi.

7. **Ceuthospora Alaterni** Thüm. Fung. Litor. n. 369. — Stromatibus epi- raro etiam hypophyllis, dense gregariis, pro ratione magnis, subconico-emersis, postremo fere lenticularibus, disco pallido, nigris, sine macula distincta; sporulis bacillaribus, rectis, utrinque obtusis, enucleatis, continuis, hyalinis, 12–16 ≃ 2. 1624

Hab. in foliis languidis et aridis Rhamni Alaterni, St. Nicolò prope Parenzo in Istria.

8. **Ceuthospora brevispora** Cooke et Harkn. Grev. 1881, p. 84. — Epiphylla; peritheciis (stromatibus?) applanatis, in lacinias parvulas dehiscentibus; nucleo subæruginoso; sporulis cylindricis, obtusis, hyalinis, continuis, 10–14 ≃ 3. 1625

Hab. in foliis Heteromeles arbutifoliæ in California Americæ borealis.

9. **Ceuthospora monocarpa** Mont. Fl. Chil. VII. p. 480, Syll. Crypt. n. 928. — Hypophylla, punctiformis, submonocarpa; peritheciis solitariis, stromate parenchymatico orbiculato, atro-marginato immersis, ostiolo cuticulam stellato-fissam sublevante; sporulis linearibus, hyalinis. 1626

Hab. in foliis coriaceis, Chile (Gay).

10. **Ceuthospora minima** Cooke et Hark. in Grevillea. — Amphigena, parvula, convexa, atra, nitida, $^1/_6$–$^1/_5$ mill. diam., sparsa vel in maculas irregulares aggregata, demum sursum erumpens; sporulis bacilliformibus, obtusis, hyalinis, 20 ≃ 1; sporophoris brevibus, simplicibus. 1627

Hab. in foliis Vaccinii in California Amer. bor.

11. **Ceuthospora Lauri** Grev. Scot. Fl. t. 254. — Stromate obtuse conico, epidermide 3-4-radiatim fissa cincto, sub-uniloculari, brunneo-nigro; sporulis in basidiis ramulosis, acrogenis, botuliformibus, 4–5 ≃ 1–1$^1/_2$, hyalinis. 1628

Hab. in foliis emortuis Lauri nobilis in Italia, Belgio, Austria et Britannia. — Forma **ramulicola** (Vize F. B. n. 104) paullulum recedit peritheciis sporulisque paulo majoribus, 5–6 ≃ 1$^1/_2$. In ramulis Lauri in Britannia.

12. **Ceuthospora Liriodendri** West. Bull. Ac. Roy. Belg. II. t. XII. n. 7. — Stromatibus minutis, immersis, dein erumpentibus et fere liberis, sparsis, atro-nitidis; ostiolo papillato, collo longiusculo; nucleo albido; sporulis elongatis, hyalinis, 2-guttulatis. 1629

Hab. in fructibus Liriodendri Tulipiferæ in hortis Namur Belgii. — «An *Ceuthospora* genuina?».

13. **Ceuthospora Diospyri** Wint. Hedw. 1881, p. 148. — Hypophylla, maculas immarginatas, atras, sparsas formans; stromatibus innato-erumpentibus, atris; sporulis cylindraceis rectis, 12–13 ≃ 2,5, medio (spurie?) septatis, hyalinis. 1630

Hab. in foliis Diospyri Embryoptes in horto botanico Calcutta Indiæ (S. Kurz).

14. **Ceuthospora concava** Desm. 14 Not. p. 17. — Amphigena, innata, sparsa, nigra, nitida, rotunda, convexa, dein concava; nucleo solitario, albido, gelatinoso; sporulis minutis, numerosis, oblongis, curvulis, 2–3-guttatis, 10 ≃ 2,5. 1631

Hab. in foliis semiputridis Rosæ bengalensis cultæ in Gallia.

15. **Ceuthospora olivacea** Corda Icon. I. p. 24, f. 296. — Stromate immerso, plano, atro-marginato, disco luride olivaceo, carnoso, intus luteo; perithecio solitario, corneo, ovoideo centrali, immerso; collo subclavato, atro, emergente; sporulis fusoideis, 2-guttatis, hyalino-luteolis. 1632

Hab. in foliis semiputridis Pandani odoratissimi culti in Bohemia.

16. **Ceuthospora umbonata** Wallr. Fl. Crypt. n. 3608. — Stromatibus synphlœodeis, primum punctiformibus, orbiculatis, atris, dein umbonatis rugosis, punctis impressis inscriptis, vertice depresso, demum irregulariter dehiscentibus. 1633

Hab. ad folia Iberidis sempervirentis hortorum in Thuringia.

Species nomine tantum mihi notæ.

17. **Ceuthospora Asparagi** Lasch in Kl. Herb. n. 1063. — Driesen Germaniæ. 1634

REPERTORIUM

SPHÆRIOIDEARUM HYALOSPORARUM

SECUNDUM MATRICES

Obs. Ap. indicat *Aposphæria*. — A. *Asteroma*. — As. *Asteromella*. — C. *Chætophoma*. — Ce. *Ceuthospora*. — Ci. *Cicinnobolus*. — Cr. *Crocicreas*. — Ca. *Cytospora*. — Cy. *Cytosporella*. — D. *Dendrophoma*. — Do. *Dothiorella*. — F. *Fuckelia*. — Fu. *Fusicoccum*. — Mu. *Muricularia*. — My. *Mycogala*. — N. *Neottiospora*. — P. *Phoma*. — Pe. *Peckia*. — Ph. *Phyllosticta*. — PhD. *Phyllosticta* (*Depazea*). — Pi. *Piptostomum*. — Pa. *Placosphæria*. — Pl. *Plenodomus*. — Pr. *Pyrenochæta*. — Pm. *Pyrenotrichum*. — R. *Rabenhorstia*. — Sc. *Sclerotiopsis*. — Si. *Sirococcus*. — S. *Sphæronæma*. — St. *Staurochæta*. — V. *Vermicularia*. — Y. *Ypsilonia*.

Abies — P. 427. 429. 430. 431. 592. 601. 602. 893. 894. 898. — S. 1143. 1145. 1150. 1154. — Si. 1296. 1297. — V. 1322. — Do. 1417. — R. 1430. — Ca. 1566. 1567. 1568. 1569. 1570. 1573. 1599.

Acacia — P. 877. — Ap. 1040. — Pa. 1442.

Acanthus — P. 764.

Acer — Ph. 56. 57. 59. 60. 61. 161. — P. 538. 539. 540. 541. 687. 909. 910. 911. — Ap. 1049. 1050. — As. 1093. — S. 1112. 1113. 1114. — C. 1189. — A. 1234. — V. 1336. — Ca. 1506. 1507. 1508. 1534. 1559. 1560. 1561. 1563. 1602.

Achillea — P. 738.

Aconitum — PhD. 358. — P. 795. — A. 1272.

Acorus — Ph. 328. 329.

Adenostyles — Si. 1298.

Adoxa — PhD. 359.

Ægopodium — Ph. 252. — P. 1017.

Æsculus — Ph. 1. 3. — P. 475. 476. 919. — Ap. 1029. — V. 1324. 1325. 1336. — Fu. 1446. — Cy. 1470.

Agapanthus — P. 941.

Agave — P. 956. 957.

Agrimonia — PhD. 360.

Agrostis — Pa. 1443.

Ailanthus — Ph. 160. — P. 559. 560. 561. 562. 694. — Do. 1412. — Ca. 1617.

Ajuga — Ph. 276.

Albizzia — P. 396.

Alisma — Ph. 331. 332.

Allium — P. 940. — V. 1375. 1376.

Alnus — Ph. 165. — P. 580. 581. 582. 583. 904. — D. 1084. — Pr. 1204. — Pa. 1445. — Ca. 1509. 1510. 1511. 1512. 1513. 1591.

Aloe — Ph. 335. — P. 958.

Althæa — Ph. 214. 215. — P. 728. 729. 801. 922.
Alysicarpum — P. 714.
Amaryllis — V. 1374.
Amelanchier — A. 1205. — S. 1121.
Ammophila — P. 995. — A. 1286.
Amorpha — P. 393.
Ampelopsis — P. 466. 470. 472. — S. 1118.
Amygdalus — Ap. 1067.
Anamirta — Ph. 152.
Andromeda — Ph. 120. — P. 660.
Andropogon — P. 989. — V. 1384.
Anethum — P. 745. 746.
Angelica — Ph. 252. — P. 747. 751. V. 1336.
Angræcum — A. 1279.
Anoda — P. 725.
Anonaceæ — P. 692. — Y. 120.
Antirrhinum — P. 793. 802. — Ci. 1293.
Apium — P. 745.
Aquilegia — PhD. 351.
Arctium — V. 1353.
Arctostaphylos — A. 1231.
Areca — PhD. 372.
Aristolochia — P. 793. — V. 1366.
Arnica — Ph. 249.
Aronicum — Ph. 241.
Artemisia — P. 735. 793. 829. 849. 850. — Ap. 1038.
Artocarpus — Pr. 1308.
Arundo — P. 987. 988. — A. 1285. 1287.
Arum — V. 1329.
Arundinaria — A. 1258.
Asclepias — P. 923.
Asparagus — P. 966. 967. — Ce. 1634.
Asperula — PhD. 361.
Asphodelus — P. 962. 963. 964. — A. 1280. — V. 1374.
Aster — P. 848.
Astragalus — Ph. 234. — P. 804.
Atalantia — Ph. 53.
Atriplex — Ph. 299. — P. 748. 829. 830.
Arabis — P. 795.
Aralia — P. 423. 622.
Arauja — P. 812.
Arbutus — Ph. 118. 119.
Aucuba — Ph. 156. 157. — P. 684.
Aurantiaceæ — Do. 1408.

Ballota — PhD. 365. — P. 774. 775. 794. — A. 1255.
Bambusa — P. 992.
Batatas — Ph. 281. 282.
Bauhinia — Ph. 47.
Berberis — Ph. 133. 134. — P. 421. 422. 423.
Beta — Ph. 298.
Betonica — P. 77[illegible].
Betula — Ph. 170. — P. 584. 585. — S. 1135. 1162. — A. 1241. — Do. 1394. 1404. — Fu. 1457. 1467. — — Ca. 1514. 1515. 1526. 1527. 1534. 1558. 1560. 1563. — Ce. 1621.
Bignonia — Ph. 148.
Blitum — P. 748.
Bœhmeria — P. 831.
Borragineæ — P. 803.
Brassica — Ph. 206. 207. — Po. 709. 710. 711. — P. 793. 802. 914. 915. — Ap. 1039. — Pl. 1101. — A. 1253.
Bromelia — V. 1370.
Broussonetia — P. 566.
Buddleja — Ph. 150.
Bumelia — P. 689. 690.
Bupleurum — Ph. 251. — A. 1260. 1261.
Buxus — Ph. 124. 125. — P. 524. 623. 624. 625. 626. 627. — Ca. 1502.

Cacalia — A. 1265. 1266.
Cactus — P. 817.
Caladium — P. 976.
Calamagrostis — P. 996. 997.
Callistemon — Ph. 122.
Calluna — P. 500. 501. — Ap. 1036. 1069.
Calotropis — P. 535. 676.
Caltha — PhD. 348.
Calycanthus — Ph. 35. — P. 665. — Ca. 1613.

Calystegia — Ph. 279. 280. — P. 793.
Camellia — Ph. 129.
Campanula — Ph. 283.
Cannabis — Ph. 294.
Capparis — Ph. 210. — P. 793.
Caragana — Ph. 41. 42. — P. 610.
Carex — Ph. 340. — P. 979. 980. — N. 1294. — Pr. 1314.
Carissa — Ph. 190.
Carlina — P. 737.
Carolinea — P. 678.
Carpinus — Ph. 168. 169. — PhD. 371. — P. 589. — D. 1084. — S. 1133. A. 1217. — Fu. 1464. 1465. — Ca. 1533. 1534. 1549. 1559. 1560. 1561.
Cassia — P. 384. 876.
Castanea — Ph. 189. — P. 902. 903. — D. 1083. — A. 1242. — V. 1329. — Do. 1403. — Fu. 1460. 1461. — Ca. 1562. 1563.
Catalpa — Ph. 147. — P. 537. 793. 926. 927. — S. 1123. — V. 1324. 1360.
Causcora — P. 784.
Ceanothus — Ca. 1588.
Cedrus — P. 891.
Celastrus — PhD. 369. — P. 470.
Celosia — Ph. 296.
Celtis — Ph. 161.
Centaurea — P. 742. 743. 744. 847.
Centranthus — P. 813. — A. 1272.
Cerasus — A. 1202. 1227. — Ca. 1488. 1489. 1490. — Ce. 1622.
Ceratonia — Ph. 48.
Cerbera — Pm. 1095.
Cercis — Ph. 36. — P. 390. 870.
Cereus — P. 818.
Chænomeles — Ph. 12.
Chærophyllum — P. 752. — A. 1262. V. 1336.
Chara — P. 1006.
Chenopodium — Ph. 299. 303. 304. — P. 748. — C. 1197. — V. 1336. 1348.
Cheiranthus — Ph. 205. — P. 913.
Cherleria — P. 860.
Chionanthus — Ph. 153. 154. — P. 508.
Chrysanthemum — Ph. 241.
Chuquiraga — P. 683.
Cichoriaceæ — P. 734.
Cichorium — P. 795.
Cinnamomum — P. 662. — V. 1332.
Circæa — Ph. 309.
Cirsium — Ph. 238. 239. — A. 1274.
Cistus — Ph. 128.
Citrus — Ph. 49. 50. 51. 52. 53. 54. 55. — P. 487. 488. 489. 490. 492. 493. 494. 495. 615. 616. 617. 618. — D. 1075. — Ap. 1034. 1035. — Ce. 1618.
Clematis — P. 705. 706. 707. — V. 1336.
Clitorea — P. 875. 876.
Clethra — Ph. 123. — S. 1125.
Cocos — Ph. 330. — P. 932. 933. 934. — Ca. 1606.
Colchicum — V. 1370.
Colutea — PhD. 368. — P. 385. 870. 873. — A. 1277.
Compositæ — A. 1274.
Coniferæ — P. 424.
Conium — V. 1336.
Convallaria — PhD. 378. — A. 1280. — V. 1374.
Coptis — V. 1364.
Cordyline — P. 965.
Coriaria — Do. 1407.
Cornus — Ph. 103. 104. — P. 506. 507. — S. 1120. — A. 1235. 1236. — Do. 1390. — Ca. 1506. 1591. 1592.
Coronilla — P. 386.
Corticium — S. 1176.
Corylus — Ph. 166. 167. — P. 590. 591. — Ap. 1028. — S. 1141. — Fu. 1459. — P. 900. — Ca. 1532. 1535. 1536. 1537. 1538. 1539. 1563.
Corynocarpus — P. 685.
Cotoneaster — Ca. 1493.
Cratægus — Ph. 13. 17. — P. 457. — A. 1204. — Ca. 1480. 1492. 1602.
Crepis — P. 739.
Crocus — P. 944.
Crucianella — P. 816.
Cruciferæ — P. 801.

Cucumis — P. 880.
Cucurbita — Ph. 287. — P. 878. 879. 881. 884. 885. 886. — V. 1368. 1369.
Cucurbitaceæ — P. 803.
Cupressus — Ap. 1058.
Cycas — C. 2000.
Cydonia — Ph. 10. — P. 443. — Ap. 1046.
Cynanchum — Ph. 284. 285. 286. — P. 924.
Cynara — Ph. 247. — P. 917.
Cypripedium — PhD. 376.
Cytisus — Ph. 38. 39. 40. — P. 394. 395. 870. — R. 1428. 1429.

Dædalea — S. 1175.
Dactylis — V. 1386.
Dahlia — P. 736. 793. 1015. — V. 1317. — Ca. 1609.
Daphne — Ph. 135. — P. 474. 681. 682. — A. 1224.
Dasylirion — P. 952. 953.
Datura — Ph. 263. — P. 760. 762.
Daucus — P. 749. — A. 1263.
Delphinium — Ph. 202. — P. 702.
Dentaria — P. 708. — A. 1214.
Desmodium — V. 1340.
Desmoncus — P. 937.
Deutzia — D. 1082.
Dianthus — Ph. 237. — A. 1216. — V. 1337. 1362. — Pa. 1438.
Dicranum — V. 1388.
Digitalis — Ph. 256. — P. 810.
Dioscorea — Ph. 323.
Diospyros — P. 530. — A. 1233. — Ce. 1630.
Diplopappus — P. 657.
Diplotaxis — P. 856.
Dipsacus — P. 785. 793. 795. 802.
Dipterix — P. 397.
Dracæna — Ph. 334. — V. 1372.
Drosera — P. 808.
Drupaceæ — P. 437.
Drymis — S. 1124. — A. 1291.

Echinocactus — P. 818.
Edgeworthia — P. 473.
Elæagnus — Ph. 151. — P. 677.
Ephedra — S. 1149. — V. 1321.
Epilobium — P. 798. — A. 1254.
Epimedium — Ph. 211.
Equisetum — P. 1004. 1005. — A. 1289.
Eranthemum — S. 1167.
Erica — P. 499. 502. — Ca. 1589.
Ericaceæ — P. 661.
Eriobotrya — Ph. 11. — A. 1225.
Ervum — P. 804.
Eryngium — P. 750. — A. 1280. — Pr. 1307. — V. 1342.
Erysimum — Ph. 208. — A. 1215.
Erythræa — Ph. 312.
Erythrina — Ph. 44. — P. 819. — Pr. 1313. — V. 1337.
Escallonia — P. 529.
Eucalyptus — Ph. 33. — P. 460. 461. 648. 649. 650. — Ap. 1045. — D. 1088. — Sc. 1100. — S. 1111. — Ca. 1497.
Eugenia — Do. 1426.
Eupatorium — Ph. 246.
Euphorbia — P. 836. 837. — A. 1269. — Do. 1421. — Ca. 1607.
Euphrasia — P. 793.
Evonymus — Ph. 68. 69. 70. 71. 72. 73. 214. — P. 416. 417. 418. 419. 623. 630. 670. 671. — A. 1218. 1219. — V. 1329. — Ca. 1602.

Faba — Ph. 231.
Fagus — P. 680. — Ap. 1020. 1030. S. 1154. — A. 1278. — Fu. 1462. 1463. — Ca. 1534. 1549. 1550. 1551. 1552. 1553. 1558. 1559. 1560. 1561. 1563.
Ferula — A. 1263.
Ficus — Ph. 171. — P. 567. 901. — V. 1333. — Pa. 1441. — Cy. 1468. Ca. 1505.
Filago — F. 851.
Fœniculum — P. 747. 793. 794. — A. 1263.
Forsythia — Ph. 139.
Fourcroya — P. 959.
Fragaria — Ph. 219. — P. 855.

Fraxinus — Ph. 106. 179. — P. 477. 478. 479. 516. 669. — S. 911. 912. — Ap. 1025. 1058. — D. 1077. 1078. 1080. — S. 1115. 1117. — A. 1276. — Do. 1392. — Fu. 1448. — Ca. 1562. 1563. 1584. 1612.

Galega — P. 722. — Do, 1423.
Galeopsis — Ph. 275. — P. 774. 796. — A. 1256.
Galium — P. 793. 815. — V. 1361. — Pa. 1435. 1437.
Garrya — Ph. 121.
Gentiana — PhD. 350. — P. 712. 713. — A. 1270.
Georgina — C. 1195.
Geranium — S. 1166. — V. 1338.
Gerardia — V. 1358.
Geum — A. 1251. 1272.
Gladiolus — P. 946. 947. — A. 1282. — V. 1374.
Glechoma — Ph. 273.
Gleditschia — P. 380. 381. 382. 870. 872.
Globularia — Ph. 311.
Glycines — Ph. 45.
Gomphrena — Ph. 295.
Gordonia — Ca. 1595.
Gossypium — P. 724. — Do. 1424.
Graminaceæ — P. 1001. — Cr. 1096. — V. 1380. — Pa. 1443.
Gynerium — P. 993.

Hardenbergia — P. 609.
Haussknechtia — A. 1208.
Hedera — Ph. 100. 101. 102. — P. 511. 512. 513. 623. 671. 672. 677. 869. — V. 1329. — Ca. 1602.
Hedysarum — P. 720. 854. — A. 1211.
Helianthemum — Ph. 204.
Helianthus — P. 802. — A. 1274. — V. 1350. 1362.
Helichrysum — P. 793.
Helleborus — Ph. 201. — P. 857.
Hemerocallis — P. 943. — V. 1373.
Heracleum — P. 751. 753. — A. 1258. 1262. — V. 1336.
Heteromeles — Ph. 196. — P. 651. Ce. 1625.
Hibiscus — Ph. 142. — P. 527. 658. 726. 729.
Hippophaë — Ca. 1597.
Holcus — Cr. 1096.
Hosackia — P. 721.
Hoya — P. 619. 620. 621.
Humulus — Ph. 293. — P. 793. 827. — Ci. 1293.
Hydrangea — Ca. 1503.
Hydrocotyle — PhD. 347.
Hyoscyamus — P. 793.
Hypericum — P. 811. 829. — A. 1212.

Iasione — P. 867.
Iasminum — Ph. 110. 111. — P. 480.
Iatropha — P. 833.
Iberis — Ce. 1633.
Ilex — Ph. 127. — P. 628. 629. 630. 631. 632. — S. 1126. — C. 1186. — Ca. 1561. — Ce. 1618.
Impatiens — PhD. 346. — V. 1355. 1362.
Indigofera — P. 723.
Inula — P. 733.
Ipomæa — V. 1359.
Iris — A. 1272. 1381. — V. 1374. 1378.
Isatis — Ci. 1293.
Iuglans — Ph. 162. 163. — P. 568. 906. — D. 1087. — S. 1134. — Ca. 1554. 1555.
Iuncus — P. 981. 982.
Iuniperus — P. 599. 897. — Do. 1404. 1416. — Ca. 1574. 1575.

Kalmia — Ca. 1602.
Kennedya — Ph. 43.
Kerria — P. 458. — D. 1071. — Do. 1397.
Kœlreuteria — P. 531.

Lactuca — P. 740. 793. — V. 1351.
Lagenaria — P. 882. 883.
Lagerstrœmia — P. 547.
Lamium — Ph. 272. — P. 779.
Lappa — Ph. 242. — P. 730. 731. 732. 796.

Lardizabala — P. 647.
Larix — P. 896. 1016. — Ca. 1566. 1567.
Laserpitium — Ph. 250.
Lathyrus — Ph. 229. 230. — P. 796. 804. 871. — Pa. 1439.
Laurus — Ph. 84. 85. 86. — P. 485. 486. 663. 921. — D. 1374. — Pr. 1404. — S. 1628.
Lavatera — P. 727.
Lecidea — S. 1177.
Leguminosæ — P. 613. 614. 715. — V. 1339.
Lemna — Ph. 333.
Lepidium — P. 717.
Liatris — P. 853.
Ligustrum — Ph. 107. 108. — P. 580. 691.
Lilium — Ph. 322. — A. 1272.
Limonia — Ph. 53. — P. 491.
Linaria — Ph. 257. — PhD. 357.
Linnæa — PhD. 353.
Linociera — Ph. 153.
Linum — P. 797. — Ci. 1293.
Liriodendron — Ph. 158. 159. — P. 532. 674. 918. — A. 1209. — V. 1331. Do. 1393. — Ce. 1629.
Lobelia — P. 789. 790. 791.
Lonicera — Ph. 90. 91. 92. — P. 403. 405. 406. 407. 408. — A. 1223. — V. 1336. 1389.
Luffa — P. 878.
Lunaria — A. 1277.
Luzula — Pr. 1315.
Lychnis — PhD. 349. — P. 858.
Lycium — Ph. 214. — P. 519. 664. 761. — A. 1238. — Ci. 1293.
Lythrum — PhD. 354. — P. 703. 866.

Maclura — P. 528.
Magnolia — Ph. 130. — PhD. 367. — P. 423. 523. 630. 686. — V. 1330. Do. 1407.
Mahonia — Ph. 131. 132. — P. 695. 696.
Mallotus — Ph. 193.
Malpighia — P. 688.
Malus — A. 1275. — V. 1329. — Do. 1404.
Malva — Ph. 214. — P. 801.
Mammillaria — P. 818.
Manioth — Do. 1422.
Marchantia — Ph. 343.
Margyricarpus — P. 454.
Marrubium — P. 773. 793.
Martynia — Ph. 260.
Matricaria — P. 703.
Medicago — Ph. 228. — P. 707. 716. 793. 795. 804. — Pr. 1309.
Melampyrum — P. 763.
Melandrium — P. 781.
Melia — Ph. 155. — P. 520. — V. 1328.
Melica — V. 1383.
Melilotus — PhD. 363.
Menispermum — P. 806. 807.
Mercurialis — Ph. 291. — P. 793, — V. 1367.
Mespilus — Ph. 9. — P. 455. 645. — A. 1225. 1226. — Ci. 1293.
Metrosideros — Ca. 1604.
Minuartia — P. 782.
Momordica — P. 878.
Monocotyledoneæ — S. 1172.
Moræa — P. 945.
Morus — Ph. 179. — P. 563. 564. 565. — Ap. 1047. — As. 1094. — Do. 1403. — Ca. 1504.
Mulgedium — A. 1213.
Musa — P. 971. 972.
Myrica — Ph. 34.
Myricaria — Ph. 126.
Myrtus — Ph. 32. — P. 647.

Napoleona — Ph. 194.
Nasturtium — Ph. 209.
Nectandra — Ph. 195.
Negundo — Ph. 58.
Nerium — Ph. 136. — P. 496. 497.
Nesæa — Ph. 314.
Nicotiana — Ph. 264. 265.
Nitraria — P. 505.
Nuphar — P. 863.
Nymphæa — Ph. 310.
Nyssa — Ph. 191. — P. 905. — A. 1204.

Œnothera — P. 799. 800. — S. 1163.
Olea — Ph. 105. — P. 667. 928. 929. S. 1116. — Ca. 1585. 1600. — Ce. 1623.
Oncidium — Ph. 326. — P. 973.
Onobrychis — P. 719.
Onoclea — V. 1387.
Opuntia — Ph. 137. — P. 817. — Ap. 1037.
Orchideæ — P. 974.
Ornithogalum — P. 942. — V. 1374.
Orobus — Ph. 226. 227. — A. 1268.
Orontium — Ph. 327.
Osmunda — V. 1381.
Othonna — P. 852.
Oxalis — Ph. 213. — V. 1365.

Pæonia — Ph. 200. — P. 703. — A. 1252.
Palmaceæ — PhD. 375. — P. 935.
Paliurus — P. 911.
Pandanus — P. 939. — Ce. 1632.
Panax — A. 1259.
Papaver — P. 785. 916.
Paris — PhD. 379.
Parkinsonia — P. 383.
Pastinaca — P. 801.
Passiflora — P. 930.
Pavia — Ph. 2.
Paulownia — Ph. 138. — P. 544. 545.
Pedicularis — P. 772. 793.
Persica — Ph. 27. — P. 434. 435. 436. — Ca. 1494. 1495.
Petunia — Ph. 261.
Peltigera — Ph. 344.
Petroselinum — P. 801. — A, 1272.
Phaseolus — Ph. 224. 225. — P. 717. 718. — V. 1341.
Pharbitis — Ph. 278.
Photinia — Ph. 18. 19. 20.
Phormium — Ph. 339. — P. 990. 991.
Phillyrea — Ph. 112. 113. 114. 115. — P. 666. — A. 1232.
Philadelphus — Ph. 90. — P. 414.
Philibertia — Ph. 317.
Phleum — P. 793. — V. 1386.
Phlox — P. 769. 801. — A. 1272. — V. 1336.
Phlomis — P. 771.
Phytolacca — Ph. 316. — P. 793. 823. — V. 1336.
Physalis — Ph. 262.
Phragmites — P. 983. 984. 985. 986. — D. 1089. — Pa. 1444.
Pinus — P. 426. 428. 593. 594. 596. 597. 598. 600. 603. 604. 890. 891. 892. 895. — Ap. 1018. 1019. 1020. 1021. 1022. 1026. — D. 1090. — S. 1142. 1144. 1146. 1147. 1148. 1150. — C. 1194. — Pr. 1310. — Do. 1402. 1417. 1419. — Pa. 1445. — Fu. 1451. 1452. 1453. — Ca. 1566. 1571. 1572. 1599.
Pirus — Ph. 7. 22. 23. 24. — P. 440. 441. 442. 907. 908. — Ap. 1023. 1044. 1065. — D. 1084. — S. 1108. 1109. — A. 1204. 1105. 1228. 1229. — V. 1329. — Ca. 1480. 1481. 1482. 1558. 1594. 1605.
Pisum — Ph. 233.
Pirola — PhD. 366.
Pittosporum — P. 425.
Platanus — Ph. 172. — P. 413. 554. 555. 556. 557. 558. 675. — D. 1083. — Fu. 1455. — Ca. 1556. 1557.
Plantago — Ph. 290. — P. 774. 805.
Poa — P. 998. — V. 1382. 1385.
Podocarpus — Do. 1420.
Podophyllum — Ph. 305.
Poinsettia — P. 526.
Polygonum — Ph. 300. — PhD. 364. — P. 797. — A. 1273. — V. 1356.
Polygonatum — Ph. 324. — P. 960. 961. — V. 1379.
Polygala — P. 509.
Populus — Ph. 175. 176. 177. 178. 179. 180. — PhD. 370. — P. 573. 574. 575. 679. — Ap. 1058. — D. 1083. 1085. 1086. — S. 1103. 1127. 1132. A. 1206. 1217. 1245. 1246. — Do. 1390. 1395. 1396. — V. 1331. — Ca. 1518. 1519. 1527. 1559. 1560. 1563.
Portulaca — Ph. 289. — P. 780.

Potamogeton — P. 948.
Potentilla — Ph. 217. 218.
Primula — Ph. 308.
Pritchardia — P. 936.
Priva — P. 765.
Prunella — P. 778. — A. 1257.
Prunus — Ph. 4. 5. 6. 7. 8. 14. 15. 16. 90. 161. — P. 433. 635. 636. 637. — Ap. 1070. — D. 1074. 1076. — S. 1103. 1104. 1105. 1106. 1110. 1154. 1155. 1157. — A. 1201. 1204. — V. 1334. — Do. 1398. — Ca. 1480. 1483. 1484. 1485. 1486. 1487. 1559. 1560. 1561. 1603.
Psoralea — P. 612.
Pteris — P. 1003. — S. 1178.
Pterocarya — Ph. 164.
Pulmonaria — Ph. 307.
Punica — Ph. 21. — P. 459. — D. 1082. — A. 1220. — Ca. 1496.
Pyxidium — Ph. 297.

Quamoclit — Ph. 277.
Quercus — Ph. 181. 182. 183. 184. 185. 186. 187. 188. — P. 569. 570. 571. 572. 623. 639. 640. 641. 642. 643. 644. 645. 646. 671. 899. 900. — Ap. 1027. 1041. 1051. 1058. 1068. — D. 1074. 1079. 1083. 1084. — S. 1129. 1130. 1136. 1137. 1138. 1139. 1143. 1183. — C. 1187. 1188. — A. 1210. — St. 1303. — Do. 1409. 1410. 1411. — Cy. 1471. 1472. 1473. 1480. — Pa. 1445. 1454. — Ca. 1534. 1539. 1540. 1541. 1542. 1544. 1545. 1546. 1548. 1560. 1562. 1563. 1602. 1615. — Ce. 1620.

Ranunculus — Ph. 197. 198. — P. 797.
Rhamnus — Ph. 62. 63. 64. 65. 66. 179. — P. 415. 510. — S. 1153. 1154. — A. 1217. 1220. — Ci. 1293. — Do. 1403. — Fu. 1447. — Ca. 1558. 1560. 1586. 1587. — Ce. 1624.
Rhinanthus — P. 751. 925.
Rhipogonum — P. 931.
Rhipsalis — P. 819.
Rhododendron — Ph. 116. 117. — Ap. 1031. — D. 1073.
Rhus — Ph. 78. 79. 80. 81. — P. 503. 504. — Ap. 1043. — S. 1121. 1122. A. 1237. — Cy. 1469. — Ca. 1501.
Ribes — Ph. 82. 83. — P. 517. 518. — D. 1074. — A. 1239. — V. 1326. Do. 1391. — F. 1434. — Fu. 1450. — Ca. 1537. 1560. 1590.
Ricinus — P. 785. 834. 835.
Robinia — Ph. 37. — P. 398. 399. 400. 401. 402. 587. 611. 870. 874. — Ap. 1041. — D. 1084. — S. 1156. — Ca. 1578. 1579. 1580. 1581.
Rosa — Ph. 31. — P. 448. 449. 450. 451. 452. 453. 580. 638. — D. 1074. — A. 1207. — Fu. 1449. — Ca. 1476. 1477. 1478. 1560. 1561. 1596. 1598. — Ce. 1631.
Rosmarinus — P. 546.
Rubia — P. 814. 868.
Rubiaceæ — P. 869.
Rubus — Ph. 28. 29. 30. — P. 444. 445. 446. 447. 793. — A. 1203. — V. 1317. 1319. — Ca. 1474. 1475. 1563. 1601.
Ruellia — V. 1357.
Rumex — Ph. 301. 302. — PhD. 355. — P. 785. 828.
Ruscus — Ph. 319. — P. 968. 969.

Sabal — P. 938. — C. 1199.
Saccharum — P. 994.
Sagittaria — PhD. 373.
Salicaria — P. 793.
Salix — P. 576. 577. 578. 579. — Ap. 1028. 1052. — D. 1075. — S. 1128. 1130. 1131. 1140. — A. 1243. 1244. — V. 1327. 1329. 1336. — Do. 1390. 1404. — Fu. 1458. — Ca. 1520. 1521. 1522. 1523. 1524. 1525. 1526. 1527. 1528. 1529. 1530. 1531. 1532. 1533. 1558. 1560. — Ce. 1619.
Salsola — P. 825. — Ca. 1608.
Sambucus — Ph. 94. 95. 313. — P. 410. 411. 412. 413. 785. 786. 787. 788. 793. 797. — Ap. 1042. — D.

1072. — A. 1272. — Pr. 1312. — Do. 1407.
Saponaria — Ph. 235. — P. 783. 859.
Sarothamnus — P. 391. — Ca. 1582.
Sarracenia — Pe. 1299.
Satureja — P. 777.
Saxifraga — P. 809. 864.
Scabiosa — P. 826.
Schinus — Ph. 143.
Schoberia — P. 793.
Scilla — V. 1374.
Scirpus — Ph. 341. — Ph. 978.
Scrophularia — Ph. 253. 254. 255. — P. 766. 794. 802.
Secale — P. 1000.
Sedum — P. 811. 822. — Pa. 1436.
Senecio — Ph. 243. 244.
Setaria — Ph. 342.
Sherardia — Pa. 1437.
Silene — Ph. 236. — P. 804.
Silphium — V. 1354.
Sisymbrium — PhD. 352.
Smilax — PhD. 374. — P. 954. 955. — Pe. 1300. — V. 1329. 1331.
Smyrnium — P. 752.
Solanum — Ph. 266. 267. 268. 269. 270. — P. 756. 757. 758. 759. 801. 920. — S. 1165. — Pr. 1306. — V. 1336. 1337. 1343. 1344. 1345. 1346.
Solidago — P. 741. 793. 802. — A. 1266. — V. 1352.
Sonchus — Ph. 240.
Sophora — P. 389. — Do. 1403.
Sorbus — Ph. 25. 26. — P. 633. 634. — Ap. 1028. — S. 1107. — Do. 1399. 1400. 1401. 1404. — Ca. 1479. 1480. 1481. — Ca. 1562.
Sorghum — Ph. 338. — PhD. 377.
Sparganium — A. 1281.
Spartium — P. 388. — Ap. 1032.
Spiræa — Ph. 220. 221. 222. 223. — P. 438. 439. 792. — A. 1262. — Ca. 1491.
Stanhopea — Pr. 1305.
Stapelia — P. 820.
Staphylea — P. 525. — V. 1320.
Statice — P. 865.
Stellaria — A. 1250. — Pa. 1438.
Sterculia — Ph. 149. — P. 521.
Stigmaphyllum — Ph. 192.
Strelitzia — P. 970.
Symphoricarpos — Ph. 93. — P. 404.
Syringa — Ph. 109. — P. 442. 481. 482. 483. 484. 668. 793. — A. 1217. — Do. 1403. 1405. — Ca. 1583.

Tamarix — P. 548. 549. 550. 551. 552. 553.
Tamus — Ph. 320. — V. 1377.
Taxus — P. 432. 606. 607. — Ca. 1576.
Tecoma — Ph. 144. 145. 146. — P. 536.
Teucrium — Ph. 271. 274.
Thalictrum — Ph. 199. — P. 704.
Thermopsis — Ph. 318.
Thuja — P. 605. 891. — Ca. 1577.
Tilia — Ph. 141. — P. 542. 543. — Ap. 1033. — S. 1156. 1157. — A. 1217. — V. 1318. — Do. 1403. — R. 1427. — Ca. 1593. 1594.
Tormentilla — Ph. 216.
Tremella — S. 1173.
Trianospermum — Ph. 288.
Trientalis — PhD. 362.
Trillium — V. 1371.
Triglochin — A. 1283. — V. 1374.
Trifolium — A. 1267.
Triticum — P. 999. 1000.
Tropæolum — Ph. 212. — A. 1272.
Tulostoma — A. 1288.
Tussilago — Ph. 245. — A. 1265.
Typha — Ph. 336. 337. — P. 977.

Ulex — P. 387.
Ulmus — Ph. 173. 174. — P. 586. 587. 588. — Ap. 1054. 1055. 1056. 1058. — A. 1247. 1248. 1249. — St. 1302. — Do. 1406. — Fu. 1456. — Ca. 1516. 1517. 1563.
Umbelliferæ — P. 748. 754. 755. — A. 1263. — V. 1349.
Urtica — Ph. 292. — P. 793. 794. 801.

802. 832. — S. 1170. — Pr. 1311. — V. 1346.
Uvaria — Ph. 325.

Vaccinium — P. 498. 659. — Do. 1418. — Ca. 1612. — Ce. 1627.
Valeriana — P. 693. — V. 1336.
Veratrum — Ph. 321.
Verbascum — Ph. 259. — P. 767. 770. 793.
Verbena — Ph. 258. — P. 793. 829.
Veronica — Ph. 253. — PhD. 356. — P. 768.
Viburnum — Ph. 74. 75. 76. 77. 90. — P. 514. 515. 516. 532. 693. — D. 1077. — A. 1217. 1221. 1222.
Vicia — Ph. 232. — P. 804.
Vinca — Ph. 306. — P. 671. 824. 862. — Ca. 1602.
Viola — Ph. 203. — P. 861. — A. 1271. — Ci. 1293. — V. 1371.
Virgilia — A. 1240.
Viscum — P. 673.
Vitis — Ph. 96. 97. 98. 99. — P. 462. 463. 464. 465. 467. 468. 469. 470. 471. 652. 653. 654. 655. 656. 887. 888. 889. — Ap. 1048. — D. 1074. — S. 1119. — Ci. 1193. — V. 1317. — Ca. 1498. 1499. 1500. 1614.
Volkameria — P. 522.

Yucca — P. 949. 950. 951. — V. 1337. 1362.

Weigelia — Ph. 440. — P. 409.
Wigandia — Ph. 315.
Wistaria — Ph. 46. — P. 392. 608.

Zea — A. 1284. 1286. 1290. — V. 1380.
Zizyphus — Ph. 67.

Sect. 2. **Phæosporæ** Sacc.

Sporulæ globosæ, ovoideæ vel oblongæ continuæ, olivaceæ vel fuligineæ.

Clavis analytica generum.

§ Simplices.

I. Perithecia glabra.

* Perithecia sessilia, subsphæroidea.

Sphæropsis. Perithecia globoso-papillata, majuscula, subcarbonacea; sporulæ longe stipitatæ, oblongæ, majusculæ.

Coniothyrium. Perithecia globulosa vel depressa, minuscula, typice submembranacea; sporulæ brevissime vel obsolete stipitatæ, sphæroideæ vel ovoideæ, minutæ.

Harknessia. Perithecia globoso-conica, tenuiter et pseudo-parenchymatica, apice albo-lacerata; sporulæ longe stipitatæ, ellipsoideo-oblongæ, dein in massam atram expulsæ.

Hypocenia. Perithecia obtusissima, erumpentia, loculum semiorbicularem distinctum includentia; sporulæ fusoideæ, pallide brunneæ.

** Perithecia stipitato-clavata.

Levieuxia. Perithecia carbonacea, rigida, demum vertice rimose diffracta.

II. Perithecia setosa.

Chætomella. Perithecia subastoma, superficialia, setosa; sporulæ stipitatæ, tereti-fusoideæ, fuligineæ, subinde hyalinæ. (Cfr. *Pyrenochæta* inter Hyalosporas).

§§ Compositæ vel cæspitosæ.

Haplosporella. Perithecia in cæspites erumpentes dense congesta.

Weinmannodora. Stroma hemisphæricum, carbonaceum, liberum, intus circinato-locellatum; sporulæ majusculæ.

Cytoplea. Stroma pulvinatum, dein confluendo effuso-crustaceum, intus monostiche locellatum; sporulæ minutæ, initio catenulatæ, paraphysatæ.

SPHÆROPSIS Lév. in Demid. Voy. p. 112 emend., Sacc. Mich. II. p. 115 (Etym. a *Sphæria*, ad quam habitu accedit), *Podosporium* Bon., non Schwein. *Macroplodia* West. V. Not. p. 19 note 2. *Aplosporella* Speg. F. Arg. Pug. IV. n. 299, p. p. — Perithecia subcutaneo-erumpentia, globosa, papillata, membranaceo-carbonacea, nigra. Sporulæ ovoideæ vel oblongæ, continuæ, fuligineæ, basidiis bacillaribus typice suffultæ. — Est, meo sensu, *Diplodia* sporulis continuis fuligineis instructa.

A) Eu-Sphæropsis.

Sporulæ mediocres, muco non obvolutæ.

I. *In Dicotyledoneis lignosis.*

1. **Sphæropsis ovalis** (Cooke et Harkn.) Sacc., *Macroplodia ovalis* Cooke et Harkn. in Grevillea 1881, p. 82. — Peritheciis atris, globosis, semi-liberis, in plagas elongatas collectis; sporulis pallido-fuscis, ovalibus, continuis, 5 ≃ 4. 1635

   Hab. in ramis Hymeneæ in California Amer. bor.

2. **Sphæropsis Absus** Cooke in Grevillea. — Sparsa, erumpens; peritheciis subglobosis, atris, demum apice prominulis; sporulis late ellipticis, demum brunneis, 20 ≃ 1,5. 1636

   Hab. in ramis Cassiæ Absus, Madras Ind. orient.

3. **Sphæropsis gleditschiæcola** Cooke in Grevill. — Peritheciis confluentibus in pustulas erumpentibus, epidermide cinctis; sporulis ellipticis, brunneis, 18 ≃ 8. 1637

   Hab. in ramis Gleditschiæ, Aiken Carolin. austr.

4. **Sphæropsis Saccardiana** (Speg.) Sacc. *Diplodia Saccardiana* Speg. Nov. Add. n. 168 et Mich. II. p. 270. — Peritheciis globosis, gregariis, sæpius lineariter dispositis, primo epidermide tectis, dein liberis, minutis, $^1/_8$–$^1/_7$ mill. diam., atris, subcarbonaceis, ostiolo parvulo impresso pertusis; sporulis ellipticis vel ovoideis, quandoque inæquilateralibus, utrinque obtusiusculis, continuis, pallide fuligineo-olivaceis, primo levibus, dein longitudinaliter 1-striatis, atque eadem stria dehiscentibus, 12–14 ≃ 5–6. 1638

   Hab. in ramulis emortuis dejectis Sarothamni scoparii in alpinis M. Borgà et M. Salta Cimolais, Cadore, Carnia.

5. **Sphæropsis Parkinsoniæ** (Speg.) Sacc. *Diplodia Porkinsoniæ* Speg. F. Arg. Pug. I. p. 190. — Peritheciis lenticularibus, $^1/_3$–$^1/_4$ mill. diam., gregariis, primo tectis, dein erumpentibus, epidermide stellatim fissa cinctis, contextu membranaceo, parenchymatico, olivaceo-fuligineo, matrice sæpius dealbata insidentibus; sporulis elliptico-cylindraceis vel subcylindraceo-ovoideis, utrinque obtuse rotundatis, continuis, rectis vel vix curvulis, opacis, fuligineis, 21–24 ≃ 8–10. 1639

   Hab. in ramulis emortuis Parkinsoniæ aculeatæ, Barracas del Sur. Argent. Amer. austr.

6. **Sphæropsis tephrospora** B. et C. North Am. Fungi n. 409bis — Peritheciis sub cortice nigrificata tectis, sero rima longitudinali 1640

emergentibus; sporulis brunneis ellipticis vel oblongo-ellipticis uninucleatis, 6-7 ≃ 3-3,5.

Hab. in ramis Magnoliæ in Carolina infer. Amer. bor. — « An *Coniothyrium?* »

7. **Sphæropsis Maertensii** (West. Bon.) Sacc. *Podosporium Maertensii* (West.) Bon. Abhandl. I. p. 46. *Epidochium Maertensii* West. in Rabenh. F. E. n. 433. — Peritheciis depressis lentiformibus, epidermide tectis, nigris, $^1/_4$ mill. diam., siccis concavo-depressis; ostiolo simplici pertuso; sporulis longis, utrinque acuminatis, atris, longe pedicellatis e fundo perithecii assurgentibus; basidiis longioribus intermixtis. 1641

Hab. in ramis deciduis Tiliæ in Belgio. — Sec. Kickx Fl. Fl. II. p. 181 ad *Melanconium Desmazieri* pertineret hæc species; sed descriptio Bonordemi differre videtur.

8. **Sphæropsis demersa** (Bon.) Sacc. *Podosporium demersum* Bon. Handb. p. 227. — Peritheciis globosis duriusculis, nigris, innato-erumpentibus ostiolatis; sporulis elongato-ovoideis, majusculis, dilute fuscis; basidiis elongatis. 1642

Hab. in ramulis corticatis Pruni spinosæ et Oratægi in Germania.

9. **Sphæropsis Peckii** Sacc. *Sphæropsis anomala* Peck Rep. of the St. M. Botan. 1872, p. 86, nec B. et C. — Peritheciis cæspitosis, nigris, in cortice interiore nidulantibus, rimaque transversali erumpentibus; ostiolo papillato; sporulis oblongis, 20-25 μ. longis. 1643

Hab. in ramis emortuis Cerasorum, Albany Amer. bor.

10. **Sphæropsis cerasina** Peck 33 Rep. St. Mus. 24. — Peritheciis numerosis, minutis, cortice nidulantibus, epidermide elevata, dein pertusa cinctis, nigris, sæpe apice cinereis; sporulis initio hyalinis, dein coloratis, elliptico-obovatis vel oblongis, 20-25 μ. longis; sporophoris brevibus. 1644

Hab. in ramis emortuis Pruni virginianæ in Amer. bor.

11. **Sphæropsis cinerea** (C. et E.) Sacc. *Macroplodia cinerea* C. et Ell. in Grevill. — Peritheciis discellæformibus (obsoletis); sporulis ellipsoideis, continuis, fuligineis, 20 μ. long.; basidiis hyalinis. 1645

Hab. in ligno decorticato Piri Mali, New Jersey Amer. bor.

12. **Sphæropsis Mali** (West.) Sacc. *Macroplodia Mali* Westd. Crypt. d. l. stat. nat. p. 369. Lamb. Fl. myc. Belg. III. p. 66. — Peritheciis sparsis, immersis, prominulis, nigris, membranaceis; ostiolo papillato epidermidem elevante et perforante; sporulis ovoideis, fuligineis, dein madore exsilientibus matricemque fœdantibus. 1646

Hab. in ramulis Piri Mali in Belgio, Italia, Austria.

13. **Sphæropsis Malorum** Peck Ann. Rep. 1881. Thirty-Fourth. p. 36, tab. 4. fig. 16-21. — Peritheciis innatis erumpentibus, epidermide fissa cinctis, conico-applanatis, vertice pertusis; sporulis oblongis, basidiis æquilongis suffultis, 25 ≃ 10-11, fuligineis. 1647

Hab. in epicarpio Piri Mali in Amer. bor. — *Sphæropsis Malorum* Berk sporulis chlorino-hyalinis utitur; hinc ad *Phomam* relata est; an tamen eadem species immatura?

14. **Sphæropsis rubicola** C. et Ell. in Grevillea. — Subgregaria, erumpens; peritheciis atris, primum tectis, demum epidermidem findentibus; sporulis elongato-ellipticis, brunneis, 25-30 ≃ 10. 1648

Hab. in sarmentis Rubi idæi, R. nigræ, New Jersey Americæ borealis.

15. **Sphæropsis Rosarum** C. et Ell. in Grevillea. — Subgregaria vel sparsa; peritheciis tectis, epidermidem findentibus; sporulis ellipticis, uninucleatis, brunneis, 25 ≃ 10. 1649

Hab. in ramis Rosarum, New Jersey Amer. bor.

16. **Sphæropsis Cydoniæ** C. et Ell. in Grevillea. Epiphylla; peritheciis immersis, punctiformibus, in maculâ rubro-brunneâ insidentibus; sporulis ellipticis, brunneis, 20-22 ≃ 9. 1650

Hab. in foliis Cydoniæ, New Jersey Amer. bor.

17. **Sphæropsis Clintonii** Peck Rep. on the St. Mus. N. J. — Peritheciis minutis, sparsis, innatis, nigris; sporulis ellipticis vel oblongo-ellipticis, coloratis, 14-17 μ. longis. 1651

Hab. in ligno decorticato Aceris, Buffalo Americæ borealis (Clinton).

18. **Sphæropsis sociata** Lév. Ann. Sc. Nat. 1846, p. 295. — Peritheciis cæspitosis cohærentibus, erumpentibus, globosis, rugulosis, nigris, receptaculo atro corticali communi impositis; ostiolis papillatis vel conicis deciduis; sporulis ovato-ellipticis, magnis, subcoloratis, 1-nucleatis. 1652

Hab. ad corticem Ailanthi glandulosæ in horto botanico parisiensi.

19. **Sphæropsis celastrina** Peck 33 Rep. St. Mus. p. 24. — Peritheciis numerosis, minutis, in cortice immersis, epidermide elevata, dein fissa cinctis; sporulis oblongis vel oblongo-ovatis, coloratis, 20-25 μ. longis. 1653

Hab. in ramis Celastri scandentis, Chartton Amer. bor.

20. **Sphæropsis propullulans** (Schw.) Peck Rep. on the St. Mus. N. Y. *Sphæria propullulans* Schw. Syn. Am. n. 1447 Cfr. Syll. II. p. 1654

393. — Atra, cæspitosa; peritheciis majusculis atrofarctis, prominulis in superficie subdepressa, coronatis ostiolis papillaribus centralibus; cæspitulis superne quasi punctato-rugosis.

Hab. frequens in surculis emortuis Celastri, Bethlehem et Greenbush Amer. bor.

21. **Sphæropsis Novæ-Hollandiæ** (Speg.) Sacc. *Diplodia Novæ-Hollandiæ* Speg. F. Arg. Pug. I. p. 190. — Peritheciis amphigenis, sparsis, parenchymati foliorum immersis, tectis, lenticulari-globosis, $^1/_3$-$^1/_4$ μ. diam., atris, ostiolo parvulo protuberante donatis; sporulis ellipticis vel ovoideis, continuis, fuligineis, 26-30 ≃ 10-12. 1655

Hab. ad folia dejecta putrescentia Eucalypti Globuli ubique vulgatissima.

22. **Sphæropsis hedericola** (Speg.) Sacc. *Diplodia hedericola* Speg. Argent. Pug. II. n. 130. — Peritheciis globoso-lenticularibus, coriaceo-membranaceis, atris, $^1/_4$-$^1/_3$ mill. diam.; sporulis ellipticis vel ovoideis, quandoque inæquilateralibus, utrinque obtuse rotundatis, 18-20 ≃ 9-10, fuligineis, continuis. 1656

Hab. in foliis dejectis Hederæ Helicis in horto del Colegio Argentino Buenos-aires in America australi.

23. **Sphæropsis fibriseda** C. et E. in Grevillea. — Peritheciis gregariis, inter fibras ligneas immersis; ostiolis breve emergentibus; sporulis longe ellipticis, brunneis, 25-30 ≃ 10. 1657

Hab. in ramis decorticatis Rhois venenatæ et Nyssæ, New Jersey in Amer. bor.

24. **Sphæropsis Sumachi** (Schw.) C. et E. Grev. V. p. 31, t. 75, f. 11, *Sphæria Sumachi* Schw. n. 1425 et Sacc. Syll. II. pag. 189. — Cæspitosa; peritheciis subconfluentibus in stromate nigro subobliterato; cæspitulis difformibus ex epidermide prorumpentibus; junior peritheciis crusta connatis, adulta fere peritheciis liberis; ostiolis majusculis difformibus; sporulis ellipticis, brunneis globoso-nucleatis, 20-25 ≃ 12. 1658

Hab. in ramis Rhois glabræ, Bethlehem Amer. bor.

25. **Sphæropsis Visci** (Sollm.) Sacc. Mich. II. p. 105, *Ceuthospora Visci* Sollm. Hedw. II. n. 19, t. XIII. — Peritheciis gregariis, globoso-depressis, atris, indistincte ostiolatis, subcutaneo-erumpentibus; sporulis obovatis magnis, 40-50 ≃ 25-30, prorsus continuis, olivaceo-fuligineis, basidiis filiformibus fultis. 1659

Hab. in foliis ramulisque Visci albi in Germania, Gallia et Helvetia.

26. **Sphæropsis aquifolia** (West.) Sacc. *Macroplodia aquifolia* West. 1660

V. Not. p. 19. — Peritheciis amphigenis, sparsis, immersis, prominulis; ostiolo papillato epidermidem lacerato-perforante; sporulis ovoideo-ellipsoideis, continuis, fuligineis, majusculis.

Hab. in foliis Ilicis Aquifolii prope Mons in Belgio (P. Dumont).

27. **Sphæropsis Citri** (Gar. et Catt.) Penz. Mich. II. p. 442, *Sphæronema Citri* Garov. et Catt. in Rendic. R. Istit. Lomb., Ser. II. vol. 8, p. 119, Catt. Mic. Agrum. p. 11. — Peritheciis sparsis, solitariis, raro congregatis confluentibusque, membranaceis, subrotundo-mammillatis, opacis, aterrimis, 500 μ. diam., ostiolatis; ostiolo mammoso; sporulis ellipticis, lutescentibus, centro nucleo oleoso farctis, 40 μ. longis; basidiis obsoletis. 1661

Hab. in cortice et in ligno denudato fracido Citrorum, Caserta prope Neapolim Ital. austr. (A. Cattaneo).

28. **Sphæropsis Henriquesii** Thüm. Contrib. ad Flor. mycol. Lusitan., Ser. III, n. 320, p. 39. — Peritheciis conicis, elevatis prominentibus, nitido-atris, simplicibus; basidiis longis, fasciculatis, curvatis, articulatis, achrois; sporulis ovoideis, continuis, utrinque acutatis, eguttulatis, olivaceo-griseis, 10-12 ≃ 6-7. 1662

Hab. in ramulis emortuis Citri Aurantii, Felgueiras in Lusitania (Henriques).

29. **Sphæropsis? atra** (Pr.) Sacc. *Gyratylium atrum* Pr. Hoyersw. n. 335. — Peritheciis membranaceis sub epidermide innatis, planis, latis, atris; sporulis erumpentibus, muco involutis subovatis, numerosissimis, semipellucidis, saturate-fuscis; nucleo firmo et guttulis oleosis repleto, basidiis stipitiformibus aggregatis. 1663

Hab. ad ramulos Corni sanguineæ, Hoyerswerda.

30. **Sphæropsis Sassafras** C. et E. in Grevillea. — Peritheciis papillæformibus, epidermide cinctis; sporulis elongato-ellipticis, brunneis, 30-35 ≃ 12. 1664

Hab. in cortice Lauri Sassafras, New Jersey Amer. bor.

31. **Sphæropsis seriata** Peck 33 Rep. St. Mus. 24. — Peritheciis solidis, aggregatis vel subcæspitosis, in cortice inæquali longe seriatis, nigris; sporulis initio pallidis, dein coloratis, elliptico-obovatis vel oblongis, 20-25 μ. longis. 1665

Hab. in cortice ramorum Sassafras officinalis, Center Americæ borealis. [Laurus]

32. **Sphæropsis fabæformis** (P. et T.) Sacc. *Diplodia fabæformis* Pass. et Thüm. Pilze des Weinstockes Wien 1878, pag. 141. — Peritheciis prominulis, semiglobosis, epidermide cinctis, primo im- 1666

mersis, tectis, mediis, subsulcatis, gregariis, irregulariter dispositis, atris; sporulis ellipsoideis vel plerumque fabæformibus, utrinque rotundatis, medio uni-nucleatis, non septatis, unilateraliter inflexis, fuscis, 20 ≃ 11-13.

Hab. in sarmentis emortuis Vitis viniferæ, Parma Italiæ (Passerini).

33. **Sphæropsis Punctum** C. et Ell. in Grevillea t. 96. f. 27. — Peritheciis sparsis, minutis, epidermide tectis, globosis; sporulis ellipticis, brunneis, 18-25 ≃ 8. 1667

Hab. in ramis Loniceræ in Pensylvania Americæ borealis (W. C. Stevenson).

34. **Sphæropsis Wilsoni** Clinton in Peck Rep. on the St. Mus. New York. — Peritheciis minutis, punctiformibus leniter prominulis, epidermide dein longitudinaliter fissa cinctis, nigris; sporulis oblongo-ellipticis, coloratis, 20-22 μ. longis. 1668

Hab. in sarmentis Loniceræ flavæ, Buffalo Americæ borealis (Clinton).

35. **Sphæropsis Sambuci** Peck Rep. on the St. Mus. N. Y. — Peritheciis subglobosis, sparsis vel subcæspitosis, prominulis, erumpentibus, epidermide fissa cinctis, nigris; sporulis oblongis, coloratis, 15-20 μ. longis. 1669

Hab. in ramis Sambuci canadensis, North Greenbush Americæ borealis.

36. **Sphæropsis sambucina** (Cooke) Sacc. *Macroplodia sambucina* Cooke in Grevillea. — Gregaria, atra, erumpens; peritheciis submembranaceis, papillatis; sporulis subglobosis, brunneis, 10 ≃ 8. 1670

Hab. in ramis Sambuci, Sierra Nevada Amer. bor.

37. **Sphæropsis Aguirrei** (Speg.) Sacc. *Haplosporella Aguirrei* Speg. Fung. Arg. pug. III. p. 34. — Peritheciis sparsis, subepidermicis, hemisphærico-conicis, parvulis, $^1/_6$-$^1/_5$ mill. diam., ostiolo papillato, minuto, exserto donatis, atris, carbonaceis; sporulis ellipticis vel ovoideis, utrinque obtusissime rotundatis, 20 ≃ 8-10, intense fuligineis, in sterigmatibus conicis, 10-15 ≃ 5, hyalinis, acrogenis. 1671

Hab. in ramulis emortuis Sambuci australis in sepibus prope San Martin Reip. Argentinæ.

38. **Sphæropsis Arctostaphyli** (Vize) Sacc. *Macroplodia Arctostaphyli* Vize in Grevillea V. p. 109. — Epiphylla, sparsa; peritheciis emergentibus, globosis, atris; sporulis anguste ellipticis, brunneis, 8-12 ≃ 5. 1672

Hab. in foliis Arctostaphyli glauci in California.

39. **Sphæropsis asterina** (Cooke et Harkn.) Sacc. *Macroplodia asterina* Cooke et Harkn. in Grev. 1881, p. 82. — Hypophylla; maculis radiato-fibrosis, suborbicularibus, atris; peritheciis subglobosis, aggregatis, inter hyphas nidulantibus; sporulis ovalibus, fuscis, 6 ≃ 3,5. 1673

Hab. in foliis Arbuti Menziesii in California Amer. bor.

40. **Sphæropsis clethricola** C. et Ellis in Grevillea. — Erumpens, subseriata; peritheciis subglobosis, atris, corticem rimoso-findentibus; sporulis ellipticis, brunneis, 22 ≃ 10. 1674

Hab. in ramis Clethræ, New Jersey Amer. bor.

41. **Sphæropsis Diospyri** B. et Br. F. of Ceyl. n. 790. — Nitida, congesta, incarcerata, epidermidem elevans; sporulis magnis, 25 μ. longis, paraphysibus longis. 1675

Hab. in fructibus Diospyri embryopteris, Peradeniya, Ceylon.

42. **Sphæropsis Syringæ** (Fr.) Peck et C. Rep. on the St. Mus. New York. *Sphæria* (Hendersonia) *Syringæ* Curr. Fructif. simpl. Sph. p. 329, cum icone, *Sphæria Syringæ* Fr. Scl. Suec. n. 233 et Syst. myc. p. 492. — Gregaria, suberumpens; peritheciis subellipticis depressis, rugulosis, nigris, ostiolo subtili; sporulis brunneis, oblongis, 20-24 ≃ 10-11. 1676

Hab. in ramis emortuis Syringæ in Suecia et in America boreali.

43. **Sphæropsis biformis** Peck Rep. on the St. Mus. N. Y. — Peritheciis sparsis, erumpentibus, aliis minutis vix epidermidem perforantibus, aliis majoribus eam late findentibus; sporulis variis, obovatis, ellipticis vel oblongis, subinde curvatis, coloratis, 15-25 μ. longis. 1677

Hab. in ramis Fraxini americanæ, Albany Amer. bor.

44. **Sphæropsis phomatella** Peck 33 Rep. St. Mus. p. 24. — Peritheciis numerosis, minutis, maculis indeterminatis pallidis insidentibus, epidermide dein fissa cinctis, nigris; sporulis oblongis, initio hyalinis, dein coloratis, 20-30 μ. longis; sporophoris brevibus. 1678

Hab. in ramulis emortuis Fraxini americanæ, West Troy Americæ borealis.

45. **Sphæropsis pensylvanica** B. et C. North Am. Fung. n. 411bis. — Peritheciis papilliformibus, epidermide cinctis; sporulis oblongo-obovatis hyalinis (dein fuscis?), 25 μ. longis. 1679

Hab. in ramis Fraxini et, ut videtur, Alni, Buffalo et in Pensylvania Amer. bor. (Michener).

46. **Sphæropsis pericarpii** Peck 25 Rep. p. 85. — Peritheciis minutis, leniter elevatis, hemisphæricis, epidermide tectis, dein vertice emergentibus; sporulis coloratis, 22 μ. longis. 1680

Hab. in pericarpio Caryæ, Albany Amer. bor.

47. **Sphæropsis Caryæ** C. et Ell. in Grevillea V. p. 52. — Peritheciis seriatis, subtectis, demum erumpentibus; sporulis ellipticis, brunneis, 25 ≃ 10-12. 1681

Hab. in ramis Caryæ albæ in Amer. bor.

48. **Sphæropsis Platani** Peck 25 Rep. p. 85. — Peritheciis hemisphæricis vel convexis, teneris, nigris, intus albis erumpentibus; ostiolo minuto, papilliformi; sporulis ellipticis vel oblongis, coloratis, 17-25 μ. longis. 1682

Hab. in ramis dejectis Platani occidentalis, Bethlehem Americæ septentrionalis.

49. **Sphæropsis conglobata** Sacc. *Cucurbitulæ conglobatæ* pycnidium Fuck. Symb. p. 171. — Peritheciis transverse erumpentibus, dense cæspitosis confluentibusque, atris, rugulosis subpapillatis, minutis; sporulis ovoideis, continuis (rarissime 1-2-septatis) fuscis, 12-15 ≃ 5-6. 1683

Hab. in corticibus putridis secedentibus Betulæ albæ in Rhenogovia.

50. **Sphæropsis valsoidea** C. et Ell. in Grevillea. — Peritheciis in pustulas congestis, 2-3 subconfluentibus, epidermide cinctis, atris, levibus; sporulis ellipticis, brunneis, 15-18 ≃ 7,5. 1684

Hab. in ramis Mori, socia *Dothidea moricola,* New Jersey Americæ borealis. — An *Haplosporella?*

51. **Sphæropsis Macluræ** Cooke in Rav. Fung. Amer. n. 146. — Gregaria, erumpens, in lineas disposita; peritheciis atris, 2-4 congestis, intus albis; sporulis ellipticis, demum brunneis, leniter striatis, 18-20 ≃ 10. 1685

Hab. in ramis Macluræ aurantiacæ, Aiken S. Carolinæ in America boreali. — An *Haplosporella?*

52. **Sphæropsis Alni** C. et Ell. Grev. V. p. 50. — Peritheciis erumpentibus, 3-4 congestis, brunneis, ovatis, submembranaceis; sporulis magnis, ellipticis, brunneis, 25-30 ≃ 10-16. 1686

Hab. in ramis vivis Alni serrulatæ, New Jersey Americæ borealis. — An *Haplosporella?*

53. **Sphæropsis carpinea** Sacc. et Br. — Peritheciis hinc inde cæspitoso-erumpentibus, aterrimis, globoso-conicis, $^1/_4$-$^1/_3$ mill. diam.; 1687

sporulis oblongo-ellipsoideis, 32 ≃ 16, stipitellatis, initio hyalinis, guttulatis, dein flavo-brunneis, continuis.

Hab. in ramis emortuis Carpini Betuli pr. Troyes Galliæ. — Ad *Haplosporellam* vergit, sed perithecia discreta etsi cæspitosa.

54. **Sphæropsis brunnea** (Bon.) Sacc. *Podosporium brunneum* Bon. 1688
Abhandl. II. p. 144. — Peritheciis lentiformibus, primum fuscis, dein nigris, epidermide tectis, demum ostiolo simplici apertis, epidermidem findentibus; sporulis oblongis, brunneis, pedicellatis; basidiis cylindricis.

Hab. in ramis emortuis Fagi silvaticæ in Germania.

55. **Sphæropsis Gallæ** (Schwz.) B. et C. *Sphæria Gallæ* Schwnz. Syn. 1689
Am. bor. n. 1446, Sacc. Syll. II. pag. 394. — Cæspitulis sparsis, valde elevatis; peritheciis primo confluentibus, demum semiliberis, assurgentibus, difformibus regularioribus immixtis, rugosis, papillatis, intus albo-farctis.

Hab. in gallis vetustis ramisque Quercus, Celtidis, Juglandis in Amer. bor. — Perithecia interdum crustiformi-conneta. — «An *Dothiorella?*».

56. **Sphæropsis linearis** Peck 25 Rep. p. 86. — Peritheciis minutis, 1690
subglobosis, densiuscule sparsis vel seriatim dispositis, erumpentibus, nigris; sporulis ellipticis vel oblongis, coloratis, 20–25 μ. long.

Hab. in ramis emortuis Quercuum, Greenbush Amer. bor.

57. **Sphæropsis Ellisi** Sacc. *Sphæropsis Pinastri* C. et Ell. in Gre- 1691
villea. — Peritheciis papilliformibus, epidermide cinctis, hinc illinc subgregariis; sporulis elongato-ellipticis, brunneis, 30 ≃ 12, vel 35–40 ≃ 15.

Hab. in ramis corticatis Pini silvestris, New Jersey Americæ borealis.

58. **Sphæropsis Pinastri** (Lév.) Sacc. *Phoma Pinastri* Lév. Ann. Sc. 1692
Nat. 1846, p. 282. — Peritheciis gregariis innatis globosis intus extusque nigris, epidermide lacerata tectis, ostiolis pertusis; sporulis ovatis, oblongis, opacis, majusculis, 1-guttatis, 10 ≃ 6–7.

Hab. ad strobilos et folia Pini silvestris prope Parisios, et Eastbourne Britanniæ.

59. **Sphæropsis anomala** B. et Br. F. of Ceyl. n. 788. — Maculis 1693
minutis aterrimis rugosis; peritheciis confusis superficialibus, depressis, minute granulatis; sporulis obovatis e stipite brevi articulo divisis, demum uniseptatis, 30–32 μ. longis.

Hab. in ramis Artocarpi Lakoochæ, Peradeniya Ceylon. — An *Diplodia?*

60. **Sphæropsis sarmenticola** (Speg.) Sacc. *Aplosporella sarmenticola* Speg. Fung. Arg. Pug. III. pag. 34. — Peritheciis sparsis v. gregariis, hemisphærico-conicis, atro-carbonaceis, primo tectis, dein epidermide secedente liberis, superficialibus, $^1/_4$-$^1/_3$ mill. diam.; sporulis ovoideis v. ellipticis, rectis v. subinæquilateralibus, granuloso-farctis, amœne fuligineis, 22-24 ≃ 10. 1694

Hab. in sarmentis dejectis putrescentibus Araujæ (Physianthi) albentis in sepibus a la Boca del Riachuelo reip. Argentinæ.

61. **Sphæropsis Sapii** (Speg.) Sacc. *Diplodia Sapii* Speg. F. Arg. Pug. II. n. 131. — Peritheciis hemisphærico-lenticularibus, ostiolo papillato pertusis, primo cortice tectis eaque secedente liberis, atris, $^1/_5$-$^1/_4$ mill. diam., coriaceo-subcarbonaceis; sporulis ellipticis vel ovoideis, sæpe inæquilateralibus, utrinque obtuse rotundatis, 22-24 ≃ 10-12, continuis, fuligineis. 1695

Hab. in ramis emortuis Excæcariæ (Sapii) biglandulosæ cerca de la Recoleta in Argentina.

62. **Sphæropsis Bonordenii** Sacc. *Podosporium atrum* Bon. Handb. p. 227. — Peritheciis globosis, papillatis, atris, liberis, duris; nucleo pallido; sporulis globoso-ovoideis, utrinque apiculatis, hinc subfusoideis, atro-brunneis; basidiis elongatis, simplicibus, fasciculato-convergentibus. 1696

Hab. in ramis in Germania.

63. **Sphæropsis fallax** (Preuss) Sacc. *Microthecium fallax* Preuss F. Hoyersw. n. 24. — Peritheciis subsphæricis, infra corticem insidentibus, gregariis, atris; nucleo subgelatinoso albo; sporulis ovatis, continuis; episporio corneo, fusco-atro, glabro, nucleo albo. 1697

Hab. sub cortice ramorum arborum frondosarum ligno adhærens, Hoyerswerda.

64. **Sphæropsis abscondita** Mont. Syll. n. 959 et Fl. Chil., VII. p. 486, t. 10, f. 5. — Peritheciis sparsis membranaceis, globoso-depressis, cortice immersis, nunquam denudatis atris; sporulis e clavato-oblongis continuis, primo hyalinis, tandem olivaceo-brunneis, intus granulosis. 1698

Hab. ad cortices in Chile (Gay).

65. **Sphæropsis abnormis** Sacc. *Sph. anomala* B. et C. North Am. Fungi n. 408bis. — Peritheciis sparsis, nudis, hemisphæricis; sporulis magnis obovatis e pedicellis simplicibus vel furcatis oriundis, 32 μ. longis. 1699

Hab. in ligno putrescente in Carolina inf. Amer. bor.

66. **Sphæropsis corticalis** (Kalch. et Cooke) Sacc. *Macroplodia corticalis* Kalch et Cooke Grev. 1880, p. 18. — Subsuperficialis, gregaria; peritheciis subglobosis, atris, vix papillatis; sporulis ovato-globosis, fuscis, 7,5 ≃ 4. 1700

Hab. in cortice in Africa australi.

67. **Sphæropsis Mougeotiana** Lév. Ann. Sc. Nat. 1846, p. 293. — Peritheciis ovatis confertis, connatis, rugosis, atris, stipite brevi suffultis, ostiolis conicis pertusis; sporulis ovatis elongatis, obtusis continuis, subopacis. 1701

Hab. ad truncos in silvis Carthagene Americæ merid. (herb. Mougeot).

68. **Sphæropsis Lecythea** (Schw.) Sacc. *Sphæria* (Diplodia) *Lecythea* Schw. Car. n. 155, Curr. Simpl. Sphær. p. 321, fig. 55. — Peritheciis nudis minutis compressis, ostiolo cylindraceo, perithecium dimidium æquante; sporulis ellipsoideis, hyalino-chlorinis, 25-35 μ. longis. 1702

Hab. in ligno carioso in Carolina Amer. bor.

II. *In Dicotyledoneis herbaceis.*

69. **Sphæropsis Vincæ** Sacc. et Wint. Miscell. Myc. p. 28 (sub *Diplodia*). — Peritheciis gregariis v. subsparsis, tectis, globosis, exiguis, atris, 260-300 μ. diam., ostiolo papillato erumpente; sporulis ovatis, ovato-oblongis v. subpiriformibus, sæpe irregularibus, diu continuis fuligineis, 17-28 ≃ 10-14. 1703

Hab. in foliis caulibusque Vincæ minoris, Amanda, Ohio Amer. bor. (W. H. Kellermann).

70. **Sphæropsis Squieriæ** Clinton in Peck Rep. on the St. Mus. N. Y. — Peritheciis minutis, numerosis, epidermide dein longitudinaliter rupta cinctis, nigris; sporulis subglobosis, coloratis, 17-20 μ. long. 1704

Hab. in caulibus Aristolochiæ tomentosæ, Buffalo Americæ borealis.

71. **Sphæropsis Baptisiæ** Thüm. Fung. Am. trig. Sp. n. 6. — Peritheciis mediis, semiimmersis, gregariis, erumpentibus, epidermide cinctis, depresso-globosis; sporulis ellipsoideis, utrinque rotundatis, simplicibus, 4,5-5 ≃ 2,5-3,5, griseo-ochraceis, pellucidis. 1705

Hab. in ramulis emortuis Baptisiæ perfoliatæ, Aiken Carol. austr. (Ravenel). — « An *Coniothyrii* species? ».

72. **Sphæropsis Isopyri** Thüm. Pilzf. Sibir. n. 795. — Peritheciis dense gregariis, hemisphærico-conicis, e stromate nigro oriundis, 1706

aterrimis, nitidis, caulem totum sæpe obducens; sporulis longe ellipsoideis, continuis, utrinque acutatis, dilute fuscidulis, 12 ≃ 5,5–6,5.

Hab. in caulibus, raro etiam in foliis capsulisque subemortuis Isopyri fumarioidis in desertis pr. Minussinsk Sibiriæ.

73. **Sphæropsis Menispermi** Peck Rep. of the Bot. 1872, p. 86. — Peritheciis numerosis, prominentibus, nigris, initio epidermide, dein longit. fissa, tectis; ostiolo emergente; sporulis oblongis, 16–17 μ. longis. 1707

Hab. in caulibus Menispermi canadensis, Greenbush Americæ borealis.

74. **Sphæropsis Malvæ** Fuck. Symb. Myc. p. 397. — Peritheciis minutissimis, densissimis, atris, maculam oblongam, griseam formantibus. 1708

Hab. in caulibus siccis Malvæ moschatæ, rarius in Rhenogovia. — «An *Phoma?*».

III. *In Monocotyledoneis et Acotyledoneis.*

75. **Sphæropsis vaginarum** (Catt.) Sacc. *Phoma vaginarum* Catt. Mic. Ris. p. 4 (10). — Peritheciis hypophyllis nigris, subglobosis, ostiolo simplici pertusis, numerosissimis, approximatis, sæpe connatis, 150 μ. latis; sporulis ovoideis vel piriformibus, continuis, guttulatis, flavis, 15 ≃ 9. 1709

Hab. in vaginis foliorum Oryzæ sativæ in Italia boreali. — «An *Conothyrium?*»

76. **Sphæropsis Oryzæ** (Catt.) Sacc. *Phoma Oryzæ* Catt. Mic. Ris. p. 4. — Peritheciis liberis vel immersis, membranaceis, nigris, primo clausis, dein ore orbiculari apertis, intus pulpa sporularum repletis; sporulis gelatina immersis, globosis, simplicibus, episporio diaphano, nucleo granuloso, colorato, 14 μ. diam. 1710

Hab. in foliis vaginisque Oryzæ sativæ in Italia boreali — «An *Coniothyrium?*».

77. **Sphæropsis subglobosa** Cooke in Grevillea. — Sparsa lirelliformis; peritheciis immersis, emergentibus, cuticulam elongato-findentibus; sporulis subglobosis, brunneis, 10–12 μ. diam. 1711

Hab. in culmis Bambusæ, Demerara, Guyan. angl.

78. **Sphæropsis decipiens** Lév. Ann. Sc. Nat. 1846, p. 294. — Peritheciis globosis, stipatis, seriatis, atris, receptaculo grumoso luteo-viridi latente immersis, ostiolis obtusis pertusis. 1712

Hab. ad culmos Bambusæ arundinaceæ in Java (Zollinger). — An *Haplosporella?*.

79. **Sphæropsis donacina** Mont. Cent. VI. n. 39, p. 51 et Syll. n. 962. — Peritheciis solitariis aggregatisque cuticula tectis, globosis nigris, intus cinereis, poro apicali amplo tandem pertusis; sporulis oblongis ovoideisve, primo hyalinis, tandem luteolis, 15 ≃ 10, sporophoris 10-30 μ. longis fultis. 1713

Hab. in vaginis siccis Arundinis Donacis in Gallia australi (Castagne).

80. **Sphæropsis ambigua** Mont. Cent. VI. n. 91, p. 308 et Syll. n. 967. — Peritheciis innatis, orbiculato-oblongis, depressis, seriato-subconfluentibus fusco-atris, ostiolo papillari vel conico obsoleto instructis, vertice tandem lacero-dehiscentibus; sporulis elliptico-fusiformibus, brevibus, fuscidulis, 15 ≃ 5. 1714

Hab. in culmo repente Zeæ Maydis in agro Petrocoriensi (Durieu).

81. **Sphæropsis Dracænarum** Penz. et Sacc. F. Mortol. n. 30, tav. V. fig. 15. — Peritheciis sparsis, hypodermicis, majusculis, 220-240 μ. diam., aterrimis, contextu parenchymatico, carbonaceis, globosis, haud depressis; sporulis breviter ellipticis vel ovoideis, brunneis, centro guttulam hyalinam foventibus, levibus, 16-20 ≃ 10-14; basidiis breviter cylindraceis, 10-15 ≃ 5-6, hyalinis. 1715

Hab. in squamis exsiccatis trunci Dracænæ indivisæ, Mortola Italiæ borealis.

82. **Sphæropsis Rusci** Thüm. Contr. Myc. Lus. n. 549. — Peritheciis dense gregariis, lenticulari-conicis, subapplanatis, fusco-nigris; sporulis longe ellipticis vel interdum clavatis, utrinque subrotundatis, simplicibus, bi-trinucleatis, rectis vel subcurvatis, dilute olivaceis, 15-16 ≃ 5-6,5. 1716

Hab. in ramulis aridis Rusci aculeati, Matta d'Alcarraques pr. Coimbra Lusitaniæ (Moller).

83. **Sphæropsis marginata** B. et C. North Am. Fungi n. 414. — Peritheciis tectis ocellatis, sparsis; sporulis fusiformibus, elongatis, angustis, brunneis, 25 μ. long. 1717

Hab. in foliis Yuccæ in Carolina inferiore Amer. bor.

84. **Sphæropsis paradisiaca** Mont. Ann. Sc. Nat. 1855, p. 163 et Syll. n. 960. — Epiphylla, punctiformis; peritheciis minimis, ¼ mill. diam., gregariis, confertis, globoso-depressis, epidermide tectis, atris, apice poro pertusis, nucleo albo; sporulis oblongis, 30 ≃ 13, limbo lato cinctis, tandem brunneolis, sporophoro brevi fultis. 1718

Hab. in foliis Musæ paradisiacæ, Guyana (Leprieur) et Coimbra in Lusitania (Moller). — Forma lusitanica, sec. Thüm.

Contr. Myc. Lus. n. 321, perithecüs jugiter liberis prædita est; an diversa?

85. **Sphæropsis brasiliensis** (Speg.) Sacc. *Haplosporella brasiliensis* Speg. Fung. Arg. Pug. III. pag. 34. — Perithecüs hemisphærico-globosis, subepidermicis, atris, $^1/_4$–$^1/_3$ mill. diam.; sporulis ellipticis v. ovoideis, intense fuligineis, 20 ≃ 10-12, in sterigmatibus piriformibus, 12–18 ≃ 6–8, hyalinis acrogenis. 1719

Hab. in petiolis foliorum Thrinacis brasiliensis in hortis prope el Retiro in Argentina.

86. **Sphæropsis Tricorynes** Berk. et Broome Fungi from Brisbane, Queensland p. 68. — Perithecüs minutis nigris, in parenchymate foliorum immersis; sporulis ellipticis, 30 μ. longis. 1720

Hab. in foliis Tricorynes ancipitis, Endeavor River in Australia.

87. **Sphæropsis parasitans** B. et R. North Am. Fung. n. 410. — Perithecüs minutis sparsis papilliformibus; sporulis ellipticis binucleatis, brunneis, 7–8 μ. longis. 1721

Hab. in Hypoxylo quodam, cujus forte est pycnidium, Cotoosa Springs Americæ borealis.

B) Macroplodia Sacc.

Sporulæ magnæ, muco obvolutæ (Cfr. n. 29).

88. **Sphæropsis Ulmi** Sacc. et Roum. Reliq. Libert. IV. n. 121. — Perithecüs massarioideis, cortici innatis, gregariis, $^1/_2$ mill. diam.; sporulis oblongo-fusoideis, utrinque subrotundatis, 60–70 ≃ 14; fuligineis, continuis, strato mucoso hyalino cinctis, dein exsiliendo matricem fœdantibus. 1722

Hab. in cortice Ulmi, sistens pycnidium *Massariæ Ulmi*, in Arduennis (Libert).

CONIOTHYRIUM Corda Icon. IV. p. 38 emend., Sacc. Mich. II. p. 7. (Etym. *conis* pulvis (sporulæ) et *thyreos* scutum (perithecium), h. e. perithecium sporulas includens). — Perithecia subcutaneo-erumpentia vel subsuperficialia, globulosa vel depressa, papillata, membranacea vel subcarbonacea, atra. Sporulæ globosæ vel ellipsoideæ exiguæ, continuæ, fuligineæ, basidiis brevibus simplicibus vel obsoletis suffultæ.

I. *In Dicotyledoneis arboreis.*

1. **Coniothyrium olivaceum** Bon. in Fuck. Symb. p. 377, Sacc. Mycol. Ven. p. 191 et Mich. I. p. 205. — Perithecüs sparsis, primitus 1723

epidermide tectis, demum erumpentibus, globosis, majusculis, 300–350 μ. diam., papillatis, ostiolatis; sporulis elliptico-oblongis, eguttulatis, continuis, 5–8 ≃ 2–5, brunneo-olivaceis.

Hab. in ramulis, rarius foliorum arborum sequentium, nec non Sambuci racemosæ, Araujæ, Wistariæ, Cycadis, Eucalypti in Germania, Italia, Gallia, Lusitania, America australi. — Var. **Philadelphi coronarii**: peritheciis globosis, majusculis, initio velatis, dein subliberis, atris, conico-papillatis; sporulis ovoideo-oblongis, 6 ≃ 3, olivaceo-fuscis. — **Rhois radicantis**: perith. ut supra; sporulis 6–7 ≃ 3½–4. — **Hederæ**: perith. ut supra; sporulis 5–8 ≃ 4. — **Loniceræ Xylostei**: perith. ut supra; sporulis 6–7 ≃ 5. — **Carpini Betuli**: perith. ut supra; sporulis 6 ≃ 3. — **Populi nigræ**: perith. ut supra; sporulis 5–6 ≃ 3. — **Catalpæ syringifoliæ**: perith. ut supra; sporulis 6–7 ≃ 3½. — **Hesperidum**: perith. ut supra sed vix papillatis; sporulis 5–8 ≃ 2–4. — **Amorphæ fruticosæ**: perith. ut supra; sporulis 8 ≃ 4–5. — **Sophoræ japonicæ**: perith. ut supra; sporulis 6–7 ≃ 3–3½. — **Sarothamni**: perith. ut supra; sporulis 5–6 ≃ 3. — **Evonymi japonici**: perith. ut supra; sporulis 6–7 ≃ 5. — **Ailanthi glandulosæ**: perith. ut supra; sporulis 7–8 ≃ 3½–4½. — **Paliuri aculeati**: perith. ut supra et cæspitulosis; sporulis 6–8 ≃ 3–4. — **Magnoliæ grandifloræ**: (in foliis) perith. ut supra; sporulis 5–7 ≃ 3–4. — **Celtidis australis**: perith. ut supra; sporulis 6 ≃ 2½–3. **Calycanthi floridi**: perith. ut supra; sporulis 5–6 ≃ 4–5. — **obovoideum** Karst. Hedw. 1880, p. 61: peritheciis obovoideis, confertis, subsuperficialibus; sporulis sphæroideo-ellipsoideis, 4–6 ≃ 3–4, vel diam. 3–5 μ. — In cortice et ligno ramorum Populi tremulæ in Fennia.

2. **Coniothyrium Fuckelii** Sacc. Fungi Ven. novi vel critici, Ser. V. p. 200, Mich. I. p. 207. — Peritheciis hypodermeis, sparsis, aterrimis, 180–200 μ. diam., globoso-depressis; ostiolo vix prominente; sporulis numerosissimis, globulosis vel breve ellipticis, 2,4–5 ≃ 2–3,5, olivaceis vel dilute fuligineis; basidiis non visibilibus. 1724

Hab. in ramis emortuis vel languidis, corticatis Rubi (sp. glob. 3–4 μ. d.), Ampelopsidis (sp. glob. 4 μ. d.), Tecomæ (sp. 3–4 ≃ 2,5–3), Rosarum (sp. 3–5 ≃ 3), Robiniæ (sp. 3 ≃ 2,6), Berberidis (sp. globoso-subangulosæ, 4 μ. d.), Helianthemi (sp. 3–3,5 ≃ 2), in foliis Citrorum arescentibus (sp. 2,5–3 ≃ 1,5–2,5) in Italia, Gallia, Germania, Austria. — Sistit spermogonium *Leptosphæriæ Coniothyrii.*

3. **Coniothyrium insitivum** Sacc. Mich. I. p. 206. — Peritheciis (ge- 1725

nuinis?) in acervulos conoideos subaggregatis, tectis, sæpe difformibus, aterrimis, nigrofarctis; sporulis oblongo-ovatis vel ovoideo-reniformibus, $4^1/_2$-$7 \simeq 2^1/_2$-4, olivaceo-fuligineis, in basidiis brevissimis acrogenis.

Hab. in ramulis Gleditschiæ, Albizziæ, Berberidis, Rhamni cathartici, Ulmi campestris et Ailanthi glandulosæ, Syringæ, Pruni Padi in Italia boreali et Gallia. — Membrana perithecii deesse videtur, sed nuclei sunt definite efformati, ergo non *Melanconii* species. Forma *Syringæ* præbuit basidia bacillaria 15-16 ≃ 2, hyalina. *Con. incrustans* Sacc. huic affine est, sed differt sporulis globulosis, 5 ≃ 4, fuligineis hyalino-1-guttulatis.

4. **Coniothyrium Rosarum** Cooke et Hark. in Grevillea n. 64. — Gregarium, tectum, demum corticem stellato-findens; sporulis profusis subglobosis ovatisve, continuis, pallide fuscis, 4 ≃ 3. 1726

Hab. in ramis Rosarum in California.

5. **Coniothyrium Cerasi** Pass. Ancora della Nebbia dei Gelsi etc. p. 3. — Peritheciis minutissimis, sparsis, globulosis, epidermide velatis, vertice vix denudatis vel tandem epidermide elapsa superficialibus, atris; sporulis subrotundis vel oblongis, 5-10 ≃ 5, olivaceis. 1727

Hab. ad ramulos repente arefactos Pruni Cerasi, Parma in Italia bor. — Dantur quoque perithecia hinc inde sparsa, multo grandiora, sporulis similibus fœta.

6. **Coniothyrium Hederæ** (Desm.) Sacc. Mich. I. p. 204, *Phoma Hederæ* Desm., Cooke Handb. p. 418, *Melanconium Hederæ* Preuss Hoyersw. p. 717, n. 312. — Peritheciis lenticularibus, majusculis, epidermide nigrificata velatis; sporulis e globoso subovoideis, 6-8 ≃ 4,5-6, sæpius subangulosis, 1-2-guttulatis, olivaceo-fuscis, guttulis grandiusculis pallidioribus, initio stipitellatis. 1728

Hab. in ramulis foliisque Hederæ Helicis in Britannia, Gallia et Italia boreali.

7. **Coniothyrium Bergii** Speg. F. Arg. Pug. III. n. 114. — Peritheciis sparsis, subepidermicis, atris, 80-100 μ. d., prominulis, membranaceis, carbonaceis, ostiolo impresso-pertusis; sporulis ellipticis, utrinque acute rotundatis, 10-12 ≃ 5-6, fuligineis, simplicibus. 1729

Hab. ad spinas vivas Berberidis heterophyllæ in campis prope Santa Cruz de Patagonia (D.r Berg). — Cum *C. Fuckelii* Sacc. f. *Berberidis* (Mich. II. p. 207) non comparandum.

8. **Coniothyrium fuscidulum** Sacc. Mich. I. p. 205. — Peritheciis gregariis, in fibris ligneis nidulantibus erumpentibusque, globulosis, 1730

atris; sporulis e globoso ovoideis, 4–5 ≃ 2–3,5, 1-guttulatis, olivaceis.

Hab. in ramis decorticatis Sambuci nigræ in Italia boreali et Gallia, socio sæpe *Melanommate fuscidulo* Sacc., cujus videtur spermogonium. — Forma **Galegæ**: sporulis 5–6 ≃ 3. In ejusdem caule in Gallia.

9. **Coniothyrium Sarothamni** (Thüm.) Sacc. *Phoma Sarothamni* Thüm. Myc. Univ. n. 576. — Peritheciis gregariis, globosis, epidermide tectis, dein liberis, applanatis, nigris; sporulis ovatis vel ovoideis, unicellularibus, sine nucleo, 5,5–7 ≃ 3–3,5, pellucidis, dilute fuscis. 1731

Hab. in ramulis præcipue tenuibus, emortuis Sarothamni scoparii raro, Bayreuth Bavariæ. — An *Coniothyrium?*

10. **Coniothyrium sublineatum** Sacc. et Malbr. Mich. II. p. 624. — Perithceiis secus angulos caulium subseriatis, globulosis, subcutaneis, nigris, $^1/_6$ mill. diam.; ostiolo obtusiusculo, erumpente; sporulis oblongis vel subfusoideis, utrinque acutiusculis, 12–13 ≃ 3,5–4, fuligineis. 1732

Hab. in ramulis emortuis Sarothamni scoparii, Brionne in Gallia.

11. **Coniothyrium sphærospermum** Fuck. Symb. Myc. p. 377. — Peritheciis sparsis, punctiformibus, in macula exarida erumpentibus, globosis, papillatis, atris; sporulis simplicibus, globosis, numerosis, circiter 2–3 μ. diam., flavis. 1733

Hab. in caulibus siccis Cytisi sagittalis rarius in Rhenogovia et in Jura Helvetiæ.

12. **Coniothyrium cytisellum** (Pass. et Thüm.) Sacc. *Phoma cytisella* Pass. et Thüm. Contr. Myc. Lus. n. 561. — Peritheciis gregariis, interdum confluentibus, primo tectis, demum disciformi-erumpentibus, aterrimis; sporulis late oblongis, ad polos obscure nucleatis, sterigmatibus longis fultis, dilute fuscidulis, pellucidis, 4,5–5,5 ≃ 3. 1734

Hab. ad ramulos aridos Cytisi albi, Villa Franca prope Coimbra in Lusitania (Moller).

13. **Coniothyrium globuliferum** Rabh. Hedw. 1873, p. 60. — Peritheciis epiphyllis, hinc inde maculiformi-congestis, erumpenti-prominulis, hemisphærico-globulosis, subastomis, nigris, nitidulis; sporulis globosis, 7 μ. diam., levibus, fuscis, guttulâ unicâ centrali præditis. 1735

Hab. in foliis Bauhiniæ Vahlii in horto botanico Calcutta Indiæ orient. (S. Kurz).

14. **Coniothyrium fœdans** Sacc. Mich. I. p. 95. — Peritheciis grega- 1736

riis vel hinc inde aggregatis, cortice nidulantibus, nigris, farctis, dein cavis; ostiolo impresso, minuto; perithecii contextu parenchymatico olivaceo-fuligineo, distincto; sporulis copiosis, ut plurimum perfecte globosis, 2–3 μ. d., rarius globoso-ellipsoideis, 4 = 3, initio brevissime stipitatis, hyalinis, denique olivaceis, 1-guttulatis, tandem effusis corticemque late olivatro-inquinantibus.

Hab. in ramis corticatis Robiniæ Pseudacaciæ, Mori albæ et Quercus in Gallia, in ramis Juglandis regiæ in Italia bor. — A *Con. Fuckelii* Sacc. peritheciis majoribus, sporulis globosis minoribus, denique inquinantibus recedit. Habitus *Melanconii*, sed perithecia adsunt.

15. **Coniothyrium punctum** Cooke et Harkn. in Grevillea n. 64. — Sparsum, subliberum, maculis nigris insidens; peritheciis minimis, depressis, atris, 150 μ. diam.; sporulis subglobosis, pallide fuscis, 5 μ. diam. 1737

Hab. in ramis decorticatis Acaciæ in California.

16. **Coniothyrium decipiens** Cooke et Harkn. in Grevillea n. 64. — Erumpens, prominulum, subgregarium; peritheciis globosis, atris, opacis, subrugosis, demum superficialibus; sporulis ovalibus subglobosisve continuis, pallide fuscis, 4 = 3. 1738

Hab. in ramis Acaciæ in California.

17. **Coniothyrium Leguminis** Sacc. Mich. II. p. 105. — Peritheciis gregariis, epidermide velatis, globoso-depressis, 100 μ. diam., poro amplo pertusis; sporulis oblongo-ellipsoideis, 6–7 = 4, 2-guttulatis, olivaceo-fuscis. 1739

Hab. in leguminibus dejectis Robiniæ Pseudacaciæ in Gallia prope Rouen (Letendre).

18. **Coniothyrium Jasmini** (Thüm.) Sacc. *Phoma Jasmini* Thüm. Contr. Myc. Lus. n. 152. — Peritheciis dense gregariis, minutis, globosis, atris in macula irregulari, arescendo-albicante, fusco-cincta, magna, plerumque confluente; sporulis ellipsoideo-globosis, utrinque rotundatis, enucleatis, numerosissimis, fuscescentibus, 6–8 μ. diam. 1740

Hab. in ramulis vivis Jasmini officinalis prope Lisboa in Lusitania (de Veiga).

19. **Coniothyrium Castagnei** Sacc. Cfr. Fuck. Symb. App. II. p. 24 ut spermog. *Lept. Jasmini*. — Peritheciis spuriis in ramulorum aridorum superiore parte sparsis, sub epidermide nidulantibus, punctiformibus, orbicularibus, scutiformibus, atris, demum vertice prominulis et regulariter perforatis seu irregulariter dehiscentibus; sporulis plerumque ovatis oblongisque, continuis, fuscis, 6–8 = 5–6. 1741

Hab. in ramulis superioribus siccis Jasmini fruticantis in Rhenogovia.

20. **Coniothyrium vagabundum** Sacc. Fung. V. N. Ser. II. p. 318, sub n. 61, *Leptosphæriæ vagabundæ* st. spermog. — Peritheciis nigro-farctis, sphærioideis vel subangulosis, immersis; sporulis oblongis, 4 ≈ 1,5, olivaceis. 1742

Hab. in ramis Corni sanguineæ, Selva prope Treviso in Italia boreali.

21. **Coniothyrium Montagnei** Cast. in Ann. Sc. Nat. 1849, p. 304. — Peritheciis sparsis, minutissimis, 50 μ. diam., ovato-globosis, depressis, tandem ruptis, atris; sporulis sphæricis, olivaceo-umbrinis, 10 μ. diam., episporio crasso; basidiis nullis vel obsoletis. 1743

Hab. in ramulis emortuis Elæagni angustifolii, inque caulibus, pedunculis fructibusque Bupleuri fruticosi prope Montaud-lès-Miramas in Gallia (Castagne).

22. **Coniothyrium Aucubæ** Sacc. Fungi V. N. Ser. IV. p. 4, sub n. 8 ut status micropycnidicus *Physalosporæ pustulatæ* Sacc. — Peritheciis gregariis, subcutaneis, globulosis, vix papillatis, intus atro-nucleatis; sporulis ovoideis, 6 ≈ 4-4,5, fuligineis. 1744

Hab. in ramis ramulisque Aucubæ japonicæ, Padova in Italia boreali.

23. **Coniothyrium Diplodiella** (Speg.) Sacc. *Phoma Diplodiella* Speg. Amp. n. 4. — Maculis dilute cinerescentibus, marginibus subfuligineis, rotundatis vel irregulariter oblongis, 2-8 mill. magn., centro punctis atris densiusculis ornatis; peritheciis gregariis, subepidermicis e globoso-lenticularibus, ostiolo impresso pertusis, tenuibus membranaceis, fuligineis, 100-150 μ. diam.; sporulis ellipticis vel ovoideis, quandoque subnavicularibus, fuligineis, 1 vel 2 guttulis præditis, utrinque obtusiusculis, 7-11 ≈ 5,5, basidiis hyalinis filiformibus suffultis. 1745

Hab. in baccis maturis Vitis viniferæ, præcipue varietatis Rabosa, Conegliano in Italia boreali.

24. **Coniothyrium phacidioides** Speg. F. Arg. Pug. IV. n. 298. — Maculis latiusculis, difformibus, elongatis, determinatis, albis vel albo-griseis; peritheciis sæpius centralibus, laxe gregariis, applanato-lenticularibus, subangulosis, 150-180 μ. diam., epidermide tectis, eaque adnatis, atris, per ætatem varie obliteratis, glabris; sterigmatibus dense constipatis, filiformibus, 30 ≈ 1, hyalinis, simplicibus; sporulis acrogenis, ellipticis, utrinque obtusiusculis, 6-10 ≈ 3-5, rectis vel inæquilateralibus, fuligineis. 1746

Hab. in sarmentis dejectis putrescentibus Rubi fruticosi, Boca del Riachuelo in Argentina.

25. **Coniothyrium fusco-atrum** Penz. Sacc. Mich. II. p. 440. — Peritheciis sparsis vel laxe gregariis, primum epidermide tectis, demum erumpentibus, globosis, atris, majusculis, 360-420 μ. diam.; ostiolo vix prominente; sporulis ut plurimum perfecte globoso-sphæricis vel breve ellipticis, atro-fuscis, eguttulatis, 5-7 ≃ 4,5-5. 1747

Hab. in ramulis siccis Citri Aurantii in frigidariis, Padova Italiæ borealis.

26. **Coniothyrium Callicarpæ** Cooke Grevill. 1884, n. XII. p. 22. — Sparsum, tectum, demum cortice fisso-erumpens; peritheciis atris, subdepressis; sporulis globosis, pallide fuscis, 4 μ. diam. 1748

Hab. in ramis Callicarpæ in Carolina infer. Amer. sept.

27. **Coniothyrium cæspitulosum** Sacc. Mich. I. p. 206. — Dothideoides; peritheciis globulosis, papillulatis, erumpentibus, in cæspitulos dense aggregatis et e mutua pressione sæpe angulosis, atris; contextu laxe celluloso ferrugineo; sporulis e globoso ovoideis, sæpius basi subapiculatis, 8-9 ≃ 6-8, e hyalino dilute flavidis. 1749

Hab. in ramulis Tamaricis gallicæ, Verona (A. Massalongo), Conegliano Ital. bor. (Spegazzini) et in Gallia (Therry).

28. **Coniothyrium subradicale** Karst. Hedw. 1884, p. 18. — Peritheciis cæspitosis, per peridermium erumpentibus, subsphæroideis, subastomis vel papillatis, atris, minimis; sporulis ellipsoideis, utrinque sæpe attenuatis, simplicibus, rectis, flavescentibus, 12-20 ≃ 7-8,5. 1750

Hab. in radice denudata Tiliæ ulmifoliæ prope Aboam.

29. **Coniothyrium australe** Sacc. Mich. I. p. 206. — Peritheciis cortice nidulantibus, epidermidem pustulatim breve elevantibus, e fibris corticalibus mutatis conflatis (ergo spuriis?), ochraceis; sporulis oblongis, 12 ≃ 7, basi cuneatis, apice inæqualiter obtusatis, 3-pluriguttulatis e luteo pallide ochraceis, in basidiis brevibus, fasciculatis acrogenis. 1751

Hab. in ramulis Paliuri aculeati, Vittorio in Italia bor. — Var. β. **Tiliæ** Sacc. Mich. II. p. 624: peritheciis dense gregariis subcutaneis; sporulis late ovatis, 12-14 ≃ 7-9, uniguttatis, fuligineo-atris. — In ramis Tiliæ europææ pr. Rouen Galliæ (Letendre).

30. **Coniothyrium microscopicum** Sacc. Mich. I. p. 49, *Cookellæ microscopicæ* st. sperm. — Peritheciis punctiformibus, gregariis, superficialibus, dimidiato-applanatis, ambitu irregularibus, astomis; sporulis globulosis vel obtuse angulosis, 7-8 μ. diam., initio 1-guttulatis, hyalinis, dein ochraceo-fuligineis. 1752

Hab. in pagina inferiore foliorum languidorum Quercus pedunculatæ in silva Montello Italiæ bor.

31. **Coniothyrium quercinum** (Bon.) Sacc. *Clinterium quercinum* Bon. Abhandl. Geb. der Mykologie II. p. 145. — Peritheciis globosis, semiimmersis, epidermide primum tectis, gregariis, atris, semper clausis; sporulis globosis, dilute fuscis, intus granulosis, terminalibus; basidiis simplicibus, parce ramosis. 1753

Hab. in ramis quercinis in Germania.

32. **Coniothyrium scutatum** (Preuss) Sacc. *Dirimosperma scutatum* Pr. F. Hoyersw. n. 303. — Peritheciis lentiformibus, innatis, tenuibus, membranaceis, papillatis; basidiis continuis; sporulis ovatis, intense fuscis. 1754

Hab. in cortice Populi, Hoyerswerda.

33. **Coniothyrium populinum** Schulz. et Sacc. Micr. Slav. n. 28, Schulz. Ill. Fung. Slav. n. 9. — Peritheciis sparsis, globoso-depressis, minutis, centro dein poro irregulari dehiscentibus; sporulis globosis, ochraceis, 5–8 μ. diam.; basidiis ..... non visis. 1755

Hab. in ramis decorticatis Populi, Eperjes in Slavonia.

34. **Coniothyrium syconophilum** Schulz. et Sacc. Micr. Slav. n. 27, Schulz. Ill. Fung. Slav. n. 54. — Peritheciis subcutaneis, globosis, ostiolo papillato erumpente, $^1/_4$–$^1/_3$ mill. diam., nigro-farctis; sporulis ellipsoideo-oblongis, 1-nucleatis, 5–6 μ. longis, fuligineis, basidiis bacillaribus, sporâ duplo longioribus, suffultis. 1756

Hab. in ramis corticatis Fici Caricæ prope Vinkovce in Slavonia.

35. **Coniothyrium botryosphærioides** Sacc. et Br. — Peritheciis in cæspites erumpentes, crassos, $1^1/_2$–$2^1/_2$ mill. diam., dense collectis, nigris, globulosis, obsolete papillatis, $^1/_5$ mill. diam.; sporulis ovoideis, 5–6 $\simeq$ 4, fuligineis. 1757

Hab. in ramis emortuis Populi prope Troyes Galliæ.

36. **Coniothyrium eurotioides** Sacc. Mich. II. p. 105. — Peritheciis gregariis, globulosis, $^1/_{10}$ mill. diam., superficialibus, pallidis, pertusis; sporulis oblongo-ovoideis, 7–9 $\simeq$ 5, utrinque rotundatis, 8–9 $\simeq$ 5, 2-guttulatis, fuscidulis. 1758

Hab. in ramis Salicis, Rubi, socia *Letendræa eurotioide*, cujus certe spermogonium, prope Rouen Galliæ (Letendre). — An ad *Sphæropsideas nectrioideas* ducendum?

37. **Coniothyrium?? abnorme** Sacc. Mich. II. p. 281. — Peritheciis subsuperficialibus, dense gregariis carbonaceis, globosis, majusculis, 1 mill. diam., atronitidis, astomis, contextu anguste parenchyma- 1759

tico (saltem ita viso) fusco, intus denique roseo-flocculosis; sporulis perfecte globosis, magnitudine variis, 10–18 μ. diam., 1-raro 2-guttulatis, fuligineis.

Hab. in ligno putri fagineo intus sæpe (ob *Coniothyrium?*) cruentato in silva Cansiglio Italiæ bor.

38. **Coniothyrium Platani** Sacc. Mich. I. p. 206. — Peritheciis globulosis, subcutaneis, vix erumpentibus, nucleo farcto atro; sporulis oblongo-ovoideis, 3 ≃ 1½, olivaceis, basidiis cylindraceis, simplicibus ramulosisque fultis. 1760

Hab. in ramis corticatis Platani orientalis, Conegliano Italiæ bor. (Spegazzini).

39. **Coniothyrium mixtum** Fuck. Symb. Myc. p. 377. — Peritheciis subimmersis, sparsis, globosis compressisve, papillatis, atris; sporulis simplicibus, aliis ovatis, aliis globosis, minutis, 7 ≃ 4. 1761

Hab. in ramis putridis decorticatis Platani orientalis in Rhenogovia.

40. **Coniothyrium paradoxum** (Brun.) Sacc. *Phoma paradoxa* Brunaud in Rev. Myc. IV. p. 98. — A *Phoma Broussonetiæ* Sacc. differt sporulis obovatis, 4 ≃ 2, brunneis. 1762

Hab. in ramis siccis Broussonetiæ papyriferæ, Saintes Galliæ.

41. **Coniothyrium anserinum** Sacc. F. Ven. Ser. IV. p. 19. — Peritheciis globoso-angulosis, nigro-farctis, ligno-immersis; sporulis ellipsoideis, fuligineis, 5-5,5 ≃ 2,5. 1763

Hab. in ramis decorticatis Broussonetiæ papyriferæ et Fici Caricæ, Selva, Treviso in Italia bor., et in Gallia.

42. **Coniothyrium incrustans** Sacc. Fungi Ven. novi vel crit. Ser. IV. p. 14, *Thyridariæ incrustantis* st. sperm. — Peritheciis e sphæroideo angulosis, rugulosis, tectis, nucleo nigro fœtis, hyphis fuligineis parcis cinctis; sporulis ovoideis, initio hyalinis stipitellatis, dein fuscis, 5 ≃ 3-4. 1764

Hab. in ramis corticatis Broussonetiæ, Albizziæ, Iulibrissin, Rhois typhinæ, Juglandis regiæ in agro tarvisino et patavino Ital. borealis.

43. **Coniothyrium ulmeum** Karst. Hedw. 1884, p. 63. — Peritheciis per corticem erumpentibus, cæspitosis, difformibus, inæqualibus, atris, astomis, 0,4 mill. d.; sporulis ellipsoideis, flavidis, 6–7 ≃ 3-4. 1765

Hab. in ramis emortuis Ulmi ad Aboam Fenniæ.

44. **Coniothyrium albistratum** (Peck) Sacc. *Phoma albistrata* Peck Bot. Gaz. Amer. 1880, p. 33. — Peritheciis minutis, 170-200 μ. d., 1766

strato tenui, albido, crustaceo insitis, sparsis, conicis vel subglobosis, subliberis, a matrice facile secedentibus, nigris; sporulis ovato-ellipsoideis, leniter coloratis, coacervatis, brunneis, binucleatis, 5-7,5 ≃ 4-5.

Hab. in cortice Thujæ orientalis, Vermont Amer. bor. — Incertum an stratum stromaticum proprium sit vel heterogeneum.

45. **Coniothyrium pallido-fuscum** Sacc. Mich. II. p. 105. — Peritheciis sparsis, hemisphæricis, 90-100 μ. diam., epidermide velatis; sporulis ellipsoideis, 5 ≃ 3, pallide fuscidulis. 1767

Hab. in foliis Araucariæ brasiliensis, Paris Galliæ, una cum *Pestalozzia funerea* (Roumeguère).

46. **Coniothyrium oospermum** (Fuck.) Sacc. *Phoma ovisperma* Fuck. Symb. p. 161. — Peritheciis sparsis, subliberis, punctiformibus, parum compressis, hemisphæricis, atris, ostiolo subtilissimo compresso; sporulis ovoideis, continuis, 7 ≃ 4, flavis. 1768

Hab. in ligno putri Pini in Rhenogovia. — Spermogonium *Teichosporæ brevirostris.*

47. **Coniothyrium dispersellum** Karst. Hedw. 1884, p. 41. — Peritheciis dispersis, inter fibras ligni liberis, rotundatis, astomis, demum ore lato apertis, mollibus, tenuissimis, nigrescentibus, 0,2 mill. diam.; sporulis ovoideis vel ellipsoideis, sæpe inæqualibus, hyalinis, in olivaceum vel olivaceo-fuscum nonnihil vergentibus, 5-8 ≃ 3-4,5. 1769

Hab. in ligno pineo, Padasjoki Fenniæ (Edm. Wainio).

48. **Coniothyrium colliculosum** (Fr.) Sacc. Mich. II. p. 104, *Sphæronæma colliculosum* Fr. — Peritheciis majusculis, ½ mill. diam., globoso-depressis, denique sub-superficialibus; sporulis globoso-ellipsoideis, 6-8 ≃ 5, fuligineis. 1770

Hab. in ligno abietino denudato in Vogesis Galliæ. — An idem ac *Sphæronæma colliculosum.*

49. **Coniothyrium glomerulatum** Sacc. Mich. I. p. 209. — Peritheciis innato-erumpentibus, hinc inde 2-5-glomerulatis, globosis, vix papillatis, 1/10 mill. diam, aterrimis; sporulis ovoideis, 3 ≃ 2, olivaceo-fuligineis. 1771

Hab. in bracteis strobilorum Abietis excelsæ prope Rouen Galliæ (Letendre).

50. **Coniothyrium conorum** Sacc. et Roum. Mich. II. p. 624. — Peritheciis gregariis, innato-erumpentibus, globulosis, 300 μ. diam., minute pertusis; sporulis globoso-ellipsoideis, 7-9 ≃ 5½-6½, ochraceo-fuligineis, 1-guttatis. 1772

Hab. in squamis conorum Abietis in Arduennis (Libert).

51. **Coniothyrium lignorum** Sacc. *Clisosporium lignorum* Fr. S. M. III. p. 335 et in Hedw. 1864, p. 74. — Peritheciis minimis, fusco-nigris, erumpentibus, membranaceis, globoso-depressis, ostiolo subpapillato pertusis; sporulis minimis subglobosis ovoideisve; basidiis nullis visis; cirris madore exsilientibus longis, fuligineis. 1773

Hab. in asseribus ligneis in Germania et Suecia. — Perithecia subcohærentia, tenuissimæ maculæ nigræ (mycelio sine dubio) passim insidentia.

52. **Coniothyrium myriocarpum** (Fries) Sacc. *Sphæria myriocarpa* Fr. S. M. II. p. 459. — Confertum, atrum, nitidum; peritheciis minimis, globosis, levibus, astomis; sporulis ovoideis vel ovoideo-oblongis, continuis, majusculis, fuscis. 1774

Hab. in lignis ad terram dejectis in Suecia, Germania, Gallia. — Omnino superficiale, nunc confertum, nunc etiam sparsum, levissimum, vetustum leviter collabitur. Ostiolum obsoletum, demum pertusum. — β. **abietinum** Karst. Symb. Myc. XV. p. 156: sporulis ovoideis subinde inæquilateralibus, fuligineis, eguttulatis, 11–15 ≃ 5–8. — In ligno Abietis, Mustiala Fenniæ.

53. **Coniothyrium rubellum** Cooke in Grevillea. — Sparsum; peritheciis membranaceis, parvulis, brunneis, in maculis roseis nidulantibus; sporulis ovoideis, pallido-fuscis, 5 ≃ 3. 1775

Hab. in ligno decorticato, New York Amer. bor.

54. **Coniothyrium coloratum** (Peck) Sacc. *Phoma colorata* Peck Bot. Gaz. 1880, p. 34. — Peritheciis minutis, 150–200 μ. diam., subliberis, hemisphæricis vel subconicis, subinde (in sicco) depressis, nigris; sporulis minutis, late ellipsoideis, continuis, coloratis, 5–6,2 μ. longis, coacervatis brunneis. 1776

Hab. in ligno emortuo, Vermont in Amer. bor. (C. G. Pringle).

II. *In Dicotyledoneis herbaceis.*

55. **Coniothyrium Crepinianum** Sacc. et Roum. Reliq. Libert. n. 113. — Peritheciis in ligno superficie nigrificato, basi insculptis, globoso-conicis, atris, ½ mill. d. obtusiusculis; sporulis ovato-ellipsoideis, olivaceo-fuligineis, 5 ≃ 3. 1777

Hab. in caule putri Brassicæ in Arduennis (Libert).

56. **Coniothyrium hortense** Sacc. et Malbr. Mich. II. p. 624. — Peritheciis dense gregariis, subcutaneis, globuloso-depressis, punctiformibus, 80–100 μ. diam., pertusis, ostiolo vix erumpente; sporulis ellipsoideis, 12–14 ≃ 7–8, continuis, atrofuligineis. 1778

Hab. in caulibus emortuis Pisorum prope Rouen in Gallia (Malbranche).

57. **Coniothyrium subolivaceum** Sacc. *Clisosporium olivaceum* Bon. Abhandl. p. 140. — Peritheciis globosis vel subglobosis, scabris, ostiolo simplici pertusis, primo pallidis, dein olivaceo-nigris, epidermide tectis; basidiis nullis; sporulis ovoideis, olivaceo-viridulis; mycelio albo sub epidermide repente. 1779

Hab. in caulibus Lupini in Germania.

58. **Coniothyrium conoideum** Sacc. Mich. I. pag. 203. — Peritheciis sparsis hemisphærico-conoideis, minutis, initio epidermide velatis, dein erumpenti-superficialibus, atris, nitidulis; sporulis ellipsoideo-globulosis, $3^1/_2 \simeq 2^1/_2$, 1-guttulatis, luteolis. 1780

Hab. in caule putri Angelicæ silvestris, una cum *Leptosphæria conoidea*, cujus est verisimiliter status spermogonicus, in silva Montello, nec non in caulibus Urticæ et Scrophulariæ in Gallia.

59. **Coniothyrium Saponariæ** Sacc. et Speg. Mich. I. p. 204. — Peritheciis globuloso-lenticularibus, 200 μ. diam., contextu parenchymatico circa porum latiusculum densiore, fuligineo; sporulis brevissime cylindraceis, utrinque obtusis, 4–$4^1/_2 \simeq 2$, e hyalino pallide fuligineis. 1781

Hab. in caulibus emortuis Saponariæ officinalis, Conegliano in Italia bor.

60. **Coniothyrium Scrophulariæ** (Fuck.) Sacc. *Phoma Scrophulariæ* Fuck. Symb. Myc. p. 112. — Peritheciis minutis, gregariis, depressis, atris; ostiolis minutissimis, erumpentibus; sporulis subglobosis, minutissimis, flavis. 1782

Hab. in caulibus Scrophulariæ Ehrharti in Rhenogovia.

61. **Coniothyrium scapisedum** Sacc. et Speg. Mich. I. p. 204. — Peritheciis globuloso-lenticularibus, initio epidermide velatis, 200–250 μ. d., anguste pertusis; contextu parenchymatico fuligineo; sporulis globoso-ovoideis, 2–$3 \simeq 1^1/_2$–2, pallide fuligineis. 1783

Hab. in scapis emortuis Plantaginis lanceolatæ, Conegliano Ital. bor. (Spegazzini), et in scapis Armeriæ plantagineæ prope Rouen in Gallia (Malbranche).

62. **Coniothyrium Halymi** (Cast.) Sacc. Mich. II. pag. 371, *Sphæria Halymi* Cast. — Peritheciis dense gregariis, innato-erumpentibus, amphigenis globoso-lenticularibus, vix 100–110 μ. diam., poro pertusis; contextu distincte parenchymatico, fuligineo-olivaceo; sporulis globosis, 5–6 μ. d., dilute fuligineis, guttulâ subroseâ fœtis. 1784

Hab. in foliis languidis Atriplicis Halymi, Angers in Gallia (Guepin).

63. **Coniothyrium silvaticum** Sacc. et Malbr. Mich. II. p. 624. — Pe- 1785

ritheciis sparsis, innatis, suberumpentibus. globulosis, $^1/_5$ mill. d., ostiolo brevi obtuso; sporulis globuloso-ellipsoideis, 3,6-4,5 μ. d., fuligineis, uniguttatis.

Hab. in caulibus Euphorbiæ silvaticæ, Elbeuf in Gallia (Malbranche).

64. **Coniothyrium Parietariæ** Sacc. et Speg. Mich. I. p. 204. — Peritheciis cortice secedente superficialibus, subhemisphæricis, 200-300 μ. diam., umbilicatis, carbonaceis; sporulis ovoideo-globulosis, 4-5 ≃ 2-$3^1/_2$, lutescenti-olivaceis. 1786

Hab. in radicibus emortuis Parietariæ officinalis, Conegliano Italiæ bor. (Spegazzini).

65. **Coniothyrium herbarum** Schulz. et Sacc. Micr. Slav. n. 26, Schulz. Ill. Fung. Slav. n. 271. — Peritheciis subgregariis, initio epidermide velatis, lenticularibus, $^1/_{10}$-$^1/_6$ mill. diam., poro pertusis; sporulis oblongo-teretiusculis, utrinque rotundatis, 5 ≃ 2, brunneolis. 1787

Hab. in caulibus Asclepiadis Syriacæ prope Vinkovce in Slavonia. — Præcipue peritheciis lenticulari-applanatis dignoscenda species.

66. **Coniothyrium æquivocum** (Ces.) Sacc. *Phoma æquivocum* Ces. Myc. Born. p. 25. — Peritheciis subcutaneis, in caule exsiccato, sparsis, globoso- vel ellipsoideo-depressis, ostiolo papillari emergente; sporulis ovalibus obtusis, fuscis, 3 ≃ 2. 1788

Hab. in caulibus exsiccatis, Sarawak Bornei (Beccari).

III. *In Monocotyledoneis.*

67. **Coniothyrium concentricum** (Desm.) Sacc. Mich. I. p. 204, *Phoma concentrica* Desm. Ann. Sc. Nat. 1840, XIII. p. 189. — Peritheciis lentiformibus, subastomis, contextu parenchymatico fuligineo; sporulis e globoso ovoideis, 4-5 ≃ 3-4, initio hyalinis, dein flavidis, tandem fuligineis, plerumque 1-guttulatis. 1789

Hab. in foliis Yuccæ gloriosæ, Yuc. filamentosæ, Yuc. aloifoliæ, Fourcroyæ excelsæ in Italia, Gallia, Belgio, Lusitania, Britannia et Amer. bor. — Perithecia non semper concentrice disposita, modo epidermide nigricante nunc immutata velata. — Var. **Agaves:** peritheciis sparse gregariis, erumpenti-superficialibus, globulosis. In foliis Agaves americanæ in Italia, Lusitania, Austria. — ***C. inops** Sacc. Mich. II. p. 142, *Phoma concentrica* Rav. et Cooke F. A. n. 243. In foliis Yuccæ filamentosæ. — A *C. concentrico* typico differt peritheciis minus evolutis, $^1/_4$ mill. diam., globoso-conicis, immersis et sporulis, 3-

$3^1/_2$ μ. d., globosis, minoribus, olivaceo-fuligineis, 1-guttulatis. Ob perithecia imperfecta forte huc pertinet *Papularia concentrica* Kickx Flandr. II. p. 90, nec *C. concentricum* Auct. — *C. herbarum* Cooke et Ellis Grevill. VI. p. 1 affine est, sed distingui potest.

68. **Coniothyrium Henriquesii** Thüm. Contr. Myc. Lus. n. 338. — 1790
Peritheciis amphigenis, magnis, hemisphærico-emersis vel vix conoideis, primo epidermide tectis, postremo cuticulâ dilaceratâ cinctis, atris, in disco orbiculato, magno, elevato, gregarie dispositis vel plerumque solitariis et sine ordine; sporulis bacillaribus vel longe ellipticis, rectis vel interdum subcurvulatis, utrinque subobtusatis, simplicibus, fuscis, 7–8 ≃ 3.

Hab. in foliis emortuis Fourcroyæ Sellowii in horto botanico Coimbra in Lusitania (Moller).

69. **Coniothyrium biforme** Winter Contr. Myc. Lus. n. 790. — Peri- 1791
theciis nunc immersis, demum erumpentibus, usque 300 μ., nunc superficialibus, 130–140 μ., subglobosis, nitidis, atris, membranaceis, sub microscopio atro-violaceis; sporulis angulato-globosis, fuscis, 5–7 μ. diam.

Hab. ad folia emortua Fourcroyæ in horto botanico Coimbra in Lusitania.

70. **Coniothyrium Agaves** (Mont.) Sacc. *Phoma Agaves* Dur. et Mont. 1792
Fl. Alg. p. 605, Mont. Syll. n. 980. — Gregarium, erumpens, punctiforme, inquinans; peritheciis rotundatis, minutissimis, atris, opacis aut nitidis; sporophoris brevibus; sporulis ovato-globosis, continuis, obscure fuliginosis.

Hab. in foliis emarcidis Agaves americanæ Alger (Durieu). — An eadem ac var. *Agaves Coniothyrii concentrici?*

71. **Coniothyrium herbarum** Cooke et Ellis Grev. t. 96, f. 32. — Pe- 1793
ritheciis convexis, brunneis, primo tectis, membranaceis; sporulis subglobosis, brunneis, 4–5 μ. diam.

Hab. in pedunculis Yuccæ filamentosæ.

72. **Coniothyrium Palmarum** Corda Icon. Fung. IV. p. 38, t. 8, f. 106. 1794
— Gregarium; peritheciis oblongis, convexis, plicatulis, atris, nitentibus, maculâ fusca, margine sæpe rubescente insidentibus; sporulis ellipsoideis in sicco coffeæformibus, semipellucidis, 8–10 ≃ 4, crasse 2-nucleatis, dein obscure fuligineis.

Hab. in foliis languidis vel emortuis Chamæropis humilis in Italia australi, in Sicilia nec non in foliis Phœnicis dactyliferæ in horto botanico Coimbra in Lusitania.

73. **Coniothyrium borbonicum** Thüm. Contr. Myc. Lusit. n. 339. — 1795

Peritheciis epiphyllis, sparsis, minutis, subprominulis, nigris in macula valde irregulari, primo ferruginea, postremo arescendo-cinerescente, magna; sporulis numerosis, ellipsoideis, utrinque obtuso-rotundatis, continuis, enucleatis, e fumoso-fuscis, 6–8 ≃ 4.

Hab. ad folia languida subvivæ Lataniæ borbonicæ (Livistonæ sinensis Hort.) in horto botanico Coimbra in Lusitania (Moller).

74. **Coniothyrium socium** Pass. et Beltr. F. Sic. n. 26. — Peritheciis 1796
sparsis, minutis, subglobosis vel oblongis, primo epidermide immutata velatis, dein denudatis, atris; sporulis ellipticis, olivaceis, 8,5 ≃ 3,5.

Hab. ad folia arida Chamæropis humilis in consortio *Coniothyrii Palmarum*, Licata in Sicilia.

75. **Coniothyrium peradenycum** Sacc. *Phoma arundinaceum* Ces. 1797
Myc. Born. pag. 25, nec Sacc. — Superficiale; peritheciis sparsis, minutissimis, depresso-ellipticis, nigris; sporulis vix 2–4 μ. longis ovalibus, fuscellis, numerosissimis.

Hab. in culmo quodam lignatili decorticato, Peradenya Ceylon.

76. **Coniothyrium arundinaceum** Sacc. Mich. I. p. 203. — Peritheciis 1798
gregariis erumpentibus, globulosis, papillatis, atris; contextu parenchymatico fuligineo; sporulis ovoideo-oblongis, 4–4½ ≃ 2½–3, 1–2-guttulatis, olivaceis, sterigmatibus filiformibus, brevibus, 10–15 ≃ 2½, suffultis.

Hab. in culmis putrescentibus Arundinis Donacis, Patavii in Italia bor. (Bizzozero). — Species bene distincta!

77. **Coniothyrium melasporum** (Berk.) Sacc. *Darluca melaspora* Berk. 1799
in Cooke Præcursor Monogr. Henders. p. 26. — Pustulis prominulis, nigris; sporulis oblongis trinucleatis; cirris nigris, 12 ≃ 5.

Hab. in culmis Sacchari officinarum in Australia.

IV. *In Acotyledoneis inque stercore.*

78. **Coniothyrium epimyces** Sacc. et Speg. Mich. I. p. 206. — Peri- 1800
theciis sparsis gregariisque, globoso-lenticularibus, 150–200 μ. d., initio-erumpentibus, pertusis; sporulis oblongo-ovoideis obtuseque angulosis, 4–6 ≃ 2½–3, 1–2-guttulatis olivaceo-fuscidulis.

Hab. in cute Polypori squamosi putris, Conegliano in Italia boreali (Spegazzini).

79. **Coniothyrium coprophilum** Speg. F. Arg. Pug. III. n. 115. — 1801
Peritheciis superficialibus, hinc inde glomerulatim gregariis, udis globosis, siccis, cupulato-collapsis, ostiolo impresso pertusis, mi-

nutis, 80-90 μ. d., membranaceis; contextu parenchymatico, atro-fuligineo; sporulis globosis vel ellipticis, quandoque basi angulato-acutatis, 6-7 ≃ 4-6, fuligineis.

Hab. in stercore canino putrescente in hortis á la Recoleta in Repub. Argentina. — A *Sporormia minima* obsoleta toto cœlo diversa!

HARKNESSIA Cooke Grev. IX. p. 85, Wint. Hedw. 1883, p. 19. (Etym. a cl. doct. *H. W. Harkness*, botanico Californiæ). — Perithecia globoso-conica, apice poroso-lacerata; contextu pseudo-parenchymatico. Sporulæ ellipticæ vel subglobosæ, continuæ, opacæ, deorsum in pedicellum hyalinum articulatum productæ, demum in grumulos atros erumpentes. — Habitus *Melanconii*, sed, teste Winter, verum perithecium adest.

1. **Harknessia Eucalypti** Cooke Grev. 9, p. 81 (1881) Wint. Hedw. 1883, p. 21. — Peritheciis innatis v. superficialibus, globosis, flavo-brunneis, epiphyllis, vel caulinis; orificio orbiculari, margine elevato, hic illic dentato-lacerato; sporulis late ellipticis, atro-fuscis, 20-30 ≃ 11-14, deorsum pedicellatis; pedicellis æqualibus linearibus, hyalinis, dein fuscidulis, 40-45 μ. longis. 1802

Hab. in foliis et ramulis Eucalypti Globuli in California Americæ borealis.

2. **Harknessia uromycoides** Speg. Arg. IV. n. 309, *Melanconium uromycoides* Speg. F. Argent. Pug. I. n. 40 (1880) *Harknessia Molleriana* Wint. Hedw. 1883, p. 20, *Harknessia longipes* Harkn. F. Calif. p. 13 (1884). — Peritheciis gregariis erumpentibus, semimembranaceis; orificio orbiculari, margine denticulato elevato; sporulis ellipsoideo-oblongis, sæpe curvis, apiculatis, 19-27 ≃ 10-12, atro-olivaceis, 2-nucleatis, apice hyalino nitido; basidiis persistentibus, flexuosis, hyalinis, angustis, sporulâ 4-6-plo longioribus, nempe usque 140 μ. longis. 1803

Hab. in ramis emortuis foliisque Eucalypti odoratæ, Piedmont Californiæ et in Argentina. — Species basidiis prælongis mox distinguenda.

HYPOCENIA B. et C. North Am. Fungi n. 423bis (Etym. *hypo* sub et *cenos* vacuus, ob cellulam basilarem in perithecio). — Perithecia crassa obtusissima, cellulam unicam semiorbicularem includentia. Sporulæ fusoideæ continuæ endochromate utrinque retracto, pallide brunneæ. — *Hypocenia herbarum* C. et H. ad *Stagonosporam* spectare videtur.

1. **Hypocenia obtusa** B. et C. North Am. Fung. n. 423bis. — Peri- 1804
theciis erumpentibus, singulis binisve sociatis, epidermide basi cinctis, obtusissimis; contextu celluloso, denso, intus pallido, semiorbiculari; loculo in basi perithecii conformi; sporulis breve fusoideis, 20 ≃ 4, endochromate utrinque retracto, pallide rubido-bruneis.

Hab. in ramis arborum in Carolina inferiore et Pensylvania Americæ borealis.

LEVIEUXIA Fr. Fungi Natal. p. 32 et Summa p. 415 (Etym. a cl. mycol. gall. *Lévieux*). — Perithecia liberata, verticalia, stipitato-clavata, carbonacea, rigida, astoma, superne demum rimose-diffracta, frustulatim decidua. Sporulæ sporophoris pedicellatæ, opacæ (ut nulla septa conspicua) in discum, demum pulverulentum, stipatæ.

1. **Levieuxia natalensis** Fr. Fungi Natal. p. 32. — Peritheciis oblon- 1805
gis basi in stipitem constrictis glabris, atris, catervatim nascentibus; disco plano convexo.

Hab. in corticibus promont. Natal (Wahlenberg).

CHÆTOMELLA Fuck. Symb. p. 402 (Etym. a *Chætomio*, quod habitu imitatur). — Perithecia superficialia v. brevissime pedicellata, astoma, ubique sparse setosa. Sporulæ basidiorum simplicium v. ramosorum apicibus, simplices, cylindraceæ vel subfusiformes, subcurvatæ, typice coloratæ. — Plures species (*Melochæta*), hic enumeratæ mihique ignotæ, hyalosporæ sunt; hinc forte ad *Pyrenochætam* v. affine genus spectare possent.

I. *Eu-Chætomella:* sporulis olivaceis.

1. **Chætomella atra** Fuck. Symb. Myc. p. 402. — Peritheciis superfi- 1806
cialibus, atro-olivaceis, globosis, dein umbilicatis v. subcupularibus, setosis, astomis, contextu distincte radiatim parenchymatico, virescente-olivaceo; setis paucis, strictis, parce septatis, 110 ≃ 8; sporulis copiosissimis, cylindraceo-fusoideis, 12–15 ≃ 2–3, minute 2-guttulatis, olivaceis; basidiis filiformibus nonnumquam usque 60 ≃ 1 suffultis.

Hab. in culmis, foliis vaginisque Phragmitis, Caricis, Arundinis, Maydis in Germania, Gallia, Italia. — Var. **lignicola** Sacc. Mich. I. p. 97: peritheciis demum cupularibus, cæterum typo similibus; sporulis fusiformibus v. subclavulatis, 12–15 ≃ 2½,

septus 2-guttulatis, olivaceis, paraphysibus [illegible] 60-70 = 1, intermixtis. In ramis decorticatis variis. Selva et Conegliano Ital. bor.

2. **Chætomella brachyspora** Sacc. et Speg. Sacc. [illegible] V. n. 1229. — Peritheciis sparsis, subsuperficialibus e globoso depressis, vix 1/3 mill. diam., astomis, nigris, undique setulis [illegible] lis, parce septatis, 100-150 = 8-10, fuscis, sursum pallidioribus apiceque obtusiusculis vestitis; contextu perithecii laxiuscule parenchymatico fusco; sporulis ovato-oblongis, utrinque rotundatis v. subtruncatis, 5-6 = 3, obsolete 2-guttulatis, olivaceis, e strato proligero celluloso, subhyalino immediate (?) oriundis.

Hab. in cortice [illegible] Catalpæ syringifoliæ, Conegliano Ital. bor. (Spegazzini).

II. *Melochæta*: sporulis hyalinis.

3. **Chætomella oblonga** Fuck. Symb. Myc. p. [illegible] — Peritheciis sparsis, [illegible] a latere visa [illegible] atro-fuscis, pilis [illegible] conspicuis, [illegible] ; sporophoris [illegible] ; sporulis cylindraceis, perparum curvatis, 11 = 2, hyalinis.

Hab. in foliis putrescentibus Rosæ rubiginosæ, rarius in [illegible] — V. **major**: peritheciis [illegible] riore Quercus pr. Münster Germaniæ.

4. **Chætomella Artemisiæ** [illegible] — [illegible] phylla: peritheciis sparsis, subglobosis, atro-brunneis, pilis tenuibus, fuscis, superne ornatis; sporulis ellipticis, hyalinis, 8-10 = 4.

Hab. in foliis vivis Artemisiæ afræ, Inanda, Natal (Wood).

5. **Chætomella Stevensoni** [illegible] pag. 111. — Peritheciis ovato-globosis, 65-85 μ. diam., setosis setis rectis, rigidis, [illegible] vero ob opacitatem parum conspicuis; sporulis fusiformibus, curvatis, nucleatis, subhyalinis, 19-26 = 2,5-3, basidiis ramulosis suffultis.

Hab. [illegible] Park, Philadelphia Amer. bor. (Stevenson).

6. **Chætomella raripila** [illegible] Fl. Crit. [illegible] VII. p. [illegible] — [illegible]

ciis globosis; ostiolo papillato; sporulis oblongis, flavidis, muco obvolutis, eguttulatis, continuis.

Hab. in ramis Hederæ, King's Cliffe in Britannia.

4. **Haplosporella Solani** (Pass.) Sacc. *Diplodia Solani* Pass. Funghi Abiss. n. 39. — Stromate carbonaceo-homogeneo, corticem sublevante et tandem stellatim v. lineatim rumpente, absque peritheciis distinctis; sporulis oblongo-ellipsoideis, continuis, castaneo-fuscis, 14–16 ≃ 8, paraphysibus subclavatis plus minus longis immixtis. 1816

Hab. in caule lignescente Solani cujusdam spinosi, Keren in Abyssinia (Beccari).

5. **Haplosporella opaca** (C. et E.) Sacc. *Sphæropsis opaca* C. et Ell. in Grevillea. — Peritheciis congestis, in pustulas minimas confluentibus, epidermide cinctis, nec papillatis, dothideoideis; sporulis ellipticis, obtusis, brunneis, 25–30 ≃ 12. 1817

Hab. in caulibus Artemisiæ, New Jersey Amer. bor.

6. **Haplosporella Ribis** Sacc. *Podospora Ribis* Schulz. et Sacc. F. Slav. n. 29, nec Fuck. quod *Dothiorella*. — Stromate pulvinato, subcutaneo-erumpente, apice convexo colliculoso, atro, ½–1 mill. lat., intus perithecia sive loculos pallidos monostichos plures fovente; sporulis obovatis, utrinque obtusiusculis, 12–18 ≃ 6,5–10 continuis fuligineis; basidiis sporula paulo brevioribus, bacillaribus, hyalinis. 1818

Hab. in ramis corticatis Ribis rubri pr. Vinkovce. — Videretur fere *Fuckelia Ribis* sed fructificatio aliena.

7. **Haplosporella Nerii** Sacc. *Podospora Nerii* Schulz. et Sacc. F. Slav. n. 30. Schulz. Ill. Fung. Slav. n. 930. — Stromate verrucoso subcutaneo-erumpente, atro, ½–1 mill. diam., intus perithecia sive loculos plures, ovatos v. subglobosos, pallidos fovente; sporulis ovatis v. ellipsoideis continuis, 14–19 ≃ 8, utrinque rotundatis ochraceo-fuligineis; basidiis sporula fere duplo longioribus, bacillaribus, hyalinis. 1819

Hab. in ramis corticatis Nerii Oleandri pr. Vinkovce Slavoniæ.

8. **Haplosporella connata** (Ger.) Sacc. *Sphæropsis connata* Gerard in Grevillea. — Peritheciis 2–4 connatis, erumpentibus, obtusis apice perforatis; sporulis ellipticis, brunneis, 22 ≃ 9. 1820

Hab. in ramis arborum, New York Americæ borealis. — Habitus fere valsoideus.

9. **Haplosporella dothideoides** Sacc. *Sphæropsis? dothideoides* Sacc. 1821

et Roum. Mich. II. p. 348. — Stromatibus pulvinatis epidermide atro-nitida velatis, intus perithecigeris?; sporulis e globoso ellipsoideis, 20 ≃ 17, biguttatis, ochraceo-fulvis.

Hab. in costa foliorum Chamæropis humilis, socia *Leptosphæria Debeauxii*, Alger. (O. Debeaux). — Fungus anceps in statu perfecto denuo explorandus. *Dothidea Chamæropis* Cooke (Cfr. Syll. II. p. 626) forte huc spectat.

10. **Haplosporella Cesatii** Sacc. *Sphæropsis undulata* Ces. Myc. Born. p. 24, nec B. et C. — Peritheciis cæspitose aggregatis *Cucurbitariam* simulantibus, nigris, vertice depresso, humectatis, carnosis; sporulis ovalibus, exosporio crasso, fuscellis, simplicibus, guttula ampla centrali, raro binis, 7 ≃ 4. 1822

Hab. ad cortices Borneo, Sarawak. — Alterum specimen habitu simile sporulas hyalinas, curvulas, cylindraceas, 3½, gerit («ergo *Cytospora?*»).

WEINMANNODORA Fr. Summa p. 409 (Etym. a J. A. Weinmann botanico et mycologo rossico). — Stroma hemisphæricum, liberum, carbonaceum, vertice ostiolo simplici pertusum; nucleo e columella centrali (alba) radiante ad medium in cellulas elongatas circinantes dimidiatas diviso. Sporulæ globosæ, simplices, nigræ, majusculæ fere *Melanconii*.

1. **Weinmannodora ruthenica** Fr. Summ. p. 409. — Fungus summopere insignis, lignatilis, capsulæ Silenes ad instar ad medium 5-locularis. 1823

Hab. in lignis in Rossia (Weinmann). — Characteres generis.

CYTOPLEA Bizz. et Sacc. in Fl. critt. Ven. (Etym. *cytos* cellula [loculus] et *pleon* plus). — Stroma subsuperficiale pulvinatum, confluendo effuso-crustaceum, intus monostiche multi-locellatum; loculis cuboideis. Sporulæ ovoideo-oblongæ, continuæ, olivaceo-fuligineæ, initio catenulatæ, stipitatæ et filiformi-paraphysatæ.

1. **Cytoplea arundinicola** Bizz. et Sacc. l. c. — Stromate ut supra descripto; loculis dense stipatis, atris, 250-260 ≃ 190-200, e pariete interiore ubique sporigeris; basidiis bacillaribus, simplicibus, hyalinis, 14-18 μ. longis; paraphysibus filiformibus, 40-60 ≃ 1,2-2; sporulis 2-nucleatis, simulateque 1-septatis, copiosissimis, 4-5 ≃ 3. 1824

Hab. in culmo putri et terra obducto Arundinis Donacis in horto patavino Ital. bor.

REPERTORIUM

SPHÆRIOIDEARUM PHÆOSPORARUM

SECUNDUM MATRICES

Obs. C. indicat *Coniothyrium*. — Ch. *Chætomella*. — Cy. *Cytoplea*. — H. *Harknessia*. — Ha. *Haplosporella*. — Hy. *Hypocenia*. — L. *Levieuxia*. — S. *Sphæropsis*. — W. *Weinmannodora*.

N. 1635 — 1824 citantur 635 — 824

Abies — C. 770. 771. 772.
Acacia — C. 737. 738.
Acer — S. 651.
Agave — C. 789. 792.
Ailanthus — S. 652. — C. 723. 725.
Albizzia — C. 725. 764.
Alnus — S. 679. 686.
Amorpha — C. 723.
Ampelopsis — C. 724.
Andropogon — Ch. 812.
Angelica — C. 780.
Araucaria — C. 777.
Aralia — S. 694. — C. 723.
Arbutus — S. 673.
Arctostaphylos — S. 672.
Aristolochia — S. 704.
Armeria — C. 783.
Artemisia — Ch. 809. — Ha. 817.
Artocarpus — S. 693.
Arundo — S. 713. — C. 798. — Ch. 806. — Cy. 824.
Asclepias — C. 787.
Atriplex — C. 784.

Bambusa — S. 711. 712.
Baptisia — S. 705.
Bauhinia — C. 735.
Berberis — C. 724. 725. 729.
Betula — S. 683.
Brassica — C. 777.
Broussonetia — C. 762. 763. 764.
Bupleurum — C. 743.

Callicarpa — C. 748.
Calycanthus — C. 723.
Carex — Ch. 806.
Carpinus — S. 687. — C. 723.
Carya — S. 680. 681.
Cassia — S. 636.
Catalpa — C. 723. — Ch. 807.
Celastrus — S. 653. 654.
Celtis — S. 689. — C. 723.
Chamærops — C. 794. 796. — Ha. 821.

Citrus — S. 661. 662. — C. 723. 724. 747. — Ha. 813.
Clethra — S. 674.
Cornus — S. 663. — C. 742.
Cratægus — S. 642.
Cycas — — C. 723.
Cydonia — S. 650.
Cytisus — C. 732. 734.

Dentaria — Ch. 810.
Diospyros — S. 675.
Dracæna — S. 715.

Elæagnus — C. 743.
Eucalyptus — S. 655. — C. 723. — H. 802. 803.
Euphorbia — C. 785.
Evonymus — C. 723.
Excæcaria — S. 695.

Fagus — S. 688. — C. 759.
Ficus — C. 756.
Fourcroya — C. 789. 790. 791.
Fraxinus — S. 677. 678. 679.

Galega — C. 730.
Gleditschia — S. 637. — C. 725.

Hedera — S. 656. — C. 723. 728. — Ha. 815.
Helianthemum — C. 724.
Hymenæa — S. 635.
Hypoxylon — S. 721.

Iasminum — C. 740. 741.
Ilex — S. 660.
Isopyrum — S. 706.
Juglans — S. 689. — C. 736. 764.

Latania — C. 795.
Laurus — S. 664. 665.
Lonicera — S. 667. 668. — C. 723.
Lupinus — C. 779.

Maclura — S. 685.
Magnolia — S. 640. — C. 723.
Malva — S. 708.
Menispermum — S. 707.
Morus — S. 684. — C. 736.
Musa — S. 718.

Nerium — Ha. 819.
Nyssa — S. 657.

Oryza — S. 709. 710.

Paliurus — C. 723. 751.
Parietaria — C. 786.
Parkinsonia — S. 639.
Philadelphus — C. 723.
Phœnix — C. 794.
Phragmites — Ch. 806.
Pinus — S. 691. 692. — C. 768. 769.
Pirus — S. 646. 647.
Pisum — C. 778.
Plantago — C. 783.
Platanus — S. 682. — C. 760. 761.
Polygonum — Ch. 811.
Polyporus — C. 800.
Populus — C. 723. 755. 757.
Prunus — S. 642. 643. 644. — C. 725. 727.

Quercus — S. 689. 690. — C. 736. 752. 753. — Ch. 808.

Robinia — C. 724. 736. 739. — Ha. 814.
Rosa — S. 649. — C. 724. 726. — Ch. 808.
Rhamnus — C. 725.
Rhus — S. 657. 659. — C. 723. 764.
Ribes — Ha. 818.
Rubus — S. 648. — C. 724. 746. 758.
Ruscus — S. 716.

Saccharum — C. 799.
Salix — C. 758.
Sambucus — S. 669. 670. 671. — C. 723. 730.

Saponaria — C. 781.
Sarothamnus — S. 638. — C. 723. 731.
Scrophularia — C. 782.
Solanum — Ha. 816.
Sophora — C. 723.
Syringa — S. 676. — C. 725.

Tamarix — C. 749.
Thrinax — S. 719.
Thuja — C. 766.
Tilia — S. 641. — C. 750. 751.
Tricoryne — S. 720.
Ulmus — S. 722. — C. 725. 765.

Vinca — S. 703.
Vitis — S. 666. — C. 745.

Wistaria — C. 723.

Yucca — S. 717. — C. 789. 793.

Zea — S. 714. — Ch. 806.

Sect. 3. **Phæodidymæ** Sacc.

Sporulæ ellipsoideæ, ovoideæ vel oblongæ, 1-septatæ, fuscæ.

Clavis analytica generum.

§ Perithecia discreta.

† Perithecia tecta vel erumpentia.

Diplodia. Perithecia glabra; sporulæ strato mucoso carentes.
Macrodiplodia. Perithecia glabra; sporulæ strato mucoso obvolutæ.
Chætodiplodia. Perithecia pilosa; sporulæ strato mucoso carentes.

†† Perithecia lignicola, subsuperficialia.

Diplodiella. Perithecia subcarbonacea, papillata.

§§ Perithecia cæspitosa.

Botryodiplodia. Perithecia cæspitoso-erumpentia.

DIPLODIA Fr. Summa Veg. Scand. p. 416. (Etym. *diplos* duplex, ob sporulas didymas), *Sporocadus* Corda p. p. — Perithecia subcutaneo-erumpentia, subcarbonacea, atra, typice papillata, pertusa. Sporulæ ellipsoideæ, ovoideæ vel oblongæ, 1-septatæ, fuscæ. Basidia bacillaria, simplicia, hyalina. — E genere primario sepositæ sunt: species peritheciis superficialibus *(Diplodiella);* peritheciis hirsutis *(Chætodiplodia);* peritheciis acervatis *(Botryodiplodia);* sporulis mucosis *(Macrodiplodia);* sporulis hyalinis *(Diplodina).*

I. *In ramis Dicotyledonearum lignosarum.*

1. **Diplodia Anonæ** Sacc. Mich. II. p. 269. — Peritheciis tectis, dein peridermio fisso semi-erumpentibus, majusculis, in acervulos oblongos, aterrimos dense congregatis, globulosis, brevissime papillatis; sporulis oblongis, diu hyalinis, continuis, guttulatis, dein 1-septatis vix constrictis, 28 ≃ 11-13, olivaceo-fuscis. 1825

Hab. in ramis crassioribus Anonæ trilobæ in horto patavino Ital. bor.

2. **Diplodia brachyspora** Sacc. Mich. II. p. 106. — Peritheciis sparsis, corticolis, initio velatis, globoso-depressis, $^1/_7$ mill. diam.; contextu laxe parenchymatico fusco-melleo; sporulis breve obovatis, apice rotundatis, 9 ≃ 7, 1-septatis, vix constrictis, fusco-cinnamomeis, subsessilibus (idest stipite apiculiformi). 1826

Hab. in ramis Berberidis vulgaris et B. buxifoliæ pr. Rouen in Gallia (Letendre).

3. **Diplodia syriaca** Sacc. M. V. n. 1202, Mich. I. p. 255. — Peritheciis plerumque cæspituloso-aggregatis, tectis, dein, epidermide fissa, semierumpentibus, globoso-depressis, obtuse papillatis, nigerrimis corticeque nigricante exceptis; contextu crassiusculo, sed laxe parenchymatico, fuligineo; sporulis oblongis, initio stipitellatis, continuis, 25 ≃ 10-11 nubilose hyalinis, tandem constricto-1-septatis, 20-24 ≃ 8-10, fuscis. 1827

Hab. in ramis corticatis Hibisci syriaci, Padova in Italia boreali.

4. **Diplodia hibiscina** C. et Ell. in Grev. — Peritheciis atris, depressis, epidermide cinctis, sparsis vel congestis; sporulis ellipticis, vix constrictis, brunneis, inæqualibus, 25-30 ≃ 12. 1828

Hab. in ramis Hibisci, New Jersey in Amer. bor.

5. **Diplodia Tiliæ** Fuck. Symb. p. 394. — Peritheciis sparsis, tectis, media magnitudine, globosis, atris, ostiolis papillæformibus, erumpentibus; sporulis in cirrum longissimum, atrum, gracile expulsis, oblongis, didymis, medio vix constrictis, atro-fuscis, 22 ≃ 9. 1829

Hab. in ramis siccis Tiliæ parvifoliæ, in Rhenogovia et in Vogesis.

6. **Diplodia Scheidweileri** (West.) Sacc. Mich. II. p. 349. *Sphæropsis Scheidweileri* West., Kickx Flandr. I. p. 401. — Peritheciis globuloso-depressis subcutaneis, erumpendo prominulis, papillatis, dein vertice circumscissis; sporulis diu continuis hyalinis, denique constricto-bilocularibus, 25 ≃ 15, fuligineis, stipitellatis. 1830

Hab. in cortice emortuo Tiliæ in Belgio et Gallia.

7. **Diplodia pustulosa** Lév. Ann. Sc. nat. 1846, p. 291. — Peritheciis sparsis vel confertis, globoso-papillatis, subcutaneo-erumpentibus; ostiolo conico, deciduo; sporulis oblongo-ellipsoideis, obtusis, 1-septatis, fuligineis, 2-guttatis; basidiis filiformibus, brevibus. 1831

Hab. in cortice emortuo Tiliæ in Gallia et Belgio.

8. **Diplodia Aurantii** Catt. Micet. Agrum. p. 9, *Sporocadus Aurantii* Garov. Catt. 1875, *Diplodia Citri* Sacc. Fungi Ven. novi vel crit., Ser. V., 1876, n. 360. — Peritheciis sparsis vel laxe gregariis, primum epidermide tectis, demum erumpentibus, diu persistentibus, globoso-conicis, carbonaceis, aterrimis, majusculis, 180-200 μ. diam.; sporulis ellipticis, bilocularibus, ad septum paullum constrictis, utrinque rotundatis, brunneo-fuligineis, 18-21 ≃ 8-10; basidiis hyalinis, crassiusculis, 12-14 ≃ 4-5. 1832

Hab. in foliis ramulisque corticatis Citrorum, sat frequens, Vittorio pr. Treviso (Saccardo); Padova (Penzig); in Italia merid. (Cattaneo).

9. **Diplodia hesperidica** Speg. in Fung. Arg., Pug. IV. n. 300. — Peritheciis parvulis, 120–150 μ. diam., sparsis, subglobosis, primo tectis, dein erumpentibus, atris, rugulosis, glabris, membranaceo-subcarbonaceis, ostiolo vix papillulato pertusis; sporulis ellipticis vel ovatis, 28–30 ≃ 10–11, rectis vel inæquilateralibus, medio 1-septatis, non constrictis, opace fuligineis. 1833

Hab. in ramis et foliis dejectis Citri Aurantii L., Parque de Palermo, pr. Buenos-Ayres in Argentina (C. Spegazzini).

10. **Diplodia subtecta** Fr. Summa Veg. Scand. p. 417. *D. Aceris* Fuck. Symb. Myc. p. 171. *D. acerina* Lév. in Ann. Sc. nat. 1846, p. 290. — Peritheciis globoso-papillulatis, subcutaneo-erumpentibus, in series lineares ordinatis, atris; sporulis ellipsoideo-oblongis, 1-septatis, 20 ≃ 10, fuligineis. 1834

Hab. in ramulis corticatis Aceris campestris in Gallia, Germania, Italia, Suecia. — Pycnidium *Cucurbitariæ protractæ.*

11. **Diplodia atrata** (Desm.) Sacc. M. V. n. 1204, *Sphæria atrata* Desm. Not. IX. p. 15, 1842. *Diplodia Negundinis* Thüm. Exsicc., *D. Aceris* v. *Negundinis* Thüm. F. A. n. 1289. *Sphæria Negundinis* Opiz 1852 sec. Thüm. — Peritheciis minutis dense sparsis, tectis, globosis, subnitidis, ostiolo papillato pertusis; nucleo albo, dein fuligineo; sporulis ovato-oblongis, constricto-1-septatis, opace fuligineis, 22–25 ≃ 11–12, dein effuso-inquinantibus. 1835

Hab. in ramis emortuis Aceris Negundinis in Gallia, Italia, Germania, Austria.

12. **Diplodia extensa** C. et Harkn. in Grev. 1881, p. 83. — Gregaria; peritheciis subglobosis, atris, sub cuticulâ nigrificata nidulantibus; sporulis ellipticis, uniseptatis, brunneis, medio constrictis, 28 ≃ 13. 1836

Hab. in ramis Aceris macrophylli in California Americæ borealis.

13. **Diplodia Æsculi** Lév. Ann. Sc. nat. 1846, p. 290. — Peritheciis globulosis, innatis, nigris, epidermide fissa tectis, poro pertusis; sporulis ellipsoideo-oblongis, obtusiusculis, constricto-1-septatis, biguttatis, fuligineis, 22–24 ≃ 8. 1837

Hab. in ramis Æsculi Hippocastani et Æ. Paviæ in Gallia, Italia, Belgio, Britannia, Germania.

14. **Diplodia Kœlreuteriæ** Sacc. Mich. II. p. 60. — Peritheciis globu- 1838

losis, papillatis, subtectis; sporulis oblongo-ellipsoideis, diu continuis, 25 ≃ 14, stipitellatis.

Hab. in ramis corticatis Kœlreuteriæ paniculatæ in Gallia austr. (Roumeguère).

15. **Diplodia Bacchi** Passer. et Thüm. Pilze des Weinstockes, Wien 1878, p. 140. — Peritheciis magnis, gregariis, primo epidermide tectis, demum erumpentibus, liberis, solitariis vel confluentibus, globosis, asperis, opaco-atris; sporulis oblongis v. ellipsoideis, utrinque late rotundatis, medio septatis, non constrictis, enucleatis, 16–20 ≃ 8–12, dilute fuscis, impellucidis. 1839

Hab. in sarmentis aridis Vitis viniferæ, Parma Ital. bor. (Passerini).

16. **Diplodia interrogativa** Thüm. et Pass. Thüm. Pilze des Weinstockes, Wien 1878, p. 139. — Peritheciis minutis, solitariis, plerumque lineari-dispositis, prominentibus, globosis, atris; sporulis forma variis, ellipsoideis, utrinque rotundatis, raro ovatis vel globosis, plerumque integris, sed etiam septatis, ad septa non constrictis, fusco-griseis, 16–22 ≃ 8–12. 1840

Hab. in sarmentis aridis Vitis viniferæ, Parma Ital. bor. (Passerini).

17. **Diplodia viticola** Desm. Ann. Sc. nat. 1838, p. 311. — Peritheciis sparsis v. seriatim gregariis, globulosis, papillulatis, subastomis, nigris; sporulis ovoideo-ellipsoideis v. oblongis, 20–22 ≃ 10–12, denique constricto-1-septatis, fuligineis, bi-nucleatis. 1841

Hab. in ramis Vitis viniferæ in Gallia, Belgio, Germania, Italia, Britannia, America boreali.

18. **Diplodia vineæ** Pass. et Beltr. Fung. Sic. n. 27. — Peritheciis sparsis vel gregariis, sæpe seriatim dispositis, tectis, demum liberis, rugulosis, atris, nucleo albo e paraphysibus (vel sporophoris?) formato farctis; sporulis parvulis, illis *Diplodiæ viticolæ* Desm. dimidio minoribus, ellipticis, non vel plus minusve ad septum constrictis, castaneo-fuscis. 1842

Hab. ad sarmenta arida Vitis viniferæ, Licata in Sicilia.

19. **Diplodia ampelina** Cooke Rav. Fung. Amer. n. 149, et in Grevillea. — Erumpens, subgregaria; peritheciis atris, primum tectis, demum liberis, hinc inde congestis, obturbinatis, leniter rugosis; sporulis ellipticis, nec constrictis, uniseptatis, brunneis, 25–28 ≃ 12. 1843

Hab. in cortice Vitis, Aiken in Carolina australi. — Diversa dicitur a *Dipl. Bacchi.*

20. **Diplodia ailanthina** Speg. Mich. I. p. 484. — Peritheciis subglo- 1844

bosis, olivaceo-fuscis, papillatis, 200-250 μ. d., subepidermicis vel ligno decorticato parallele dispositis, ostiolo perforatis; sporulis fuligineis, 20 ≃ 7, 1-septatis ad septum non vel vix constrictis.

Hab. in ramulis emortuis Ailanthi glandulosæ, Coneglia-no in Italia bor.

21. **Diplodia Staphyleæ** Sacc. et Penz. in Mich. II. pag. 632. — Pe- 1845
ritheciis gregariis, globoso-depressis, obtusis, subcutaneis, ostiolo vix erumpente, 1/5 mill. diam.; sporulis oblongis, uniseptatis, vix constrictis, 25-27 ≃ 10-11, utrinque rotundatis, guttulatis, fuligineis.

Hab. in ramulis corticatis Staphyleæ pinnatæ, Saintes in Gallia (Brunaud).

22. **Diplodia ramulicola** Desm. Ann. Sc. nat. 1850, p. 113. *D. Evo-* 1846
nymi Fuck. nec West. — Peritheciis innatis, prominulis, numerosis, minutis, dense sparsis, globoso-depressis, nigris, 1/4-1/3 mill. diam., opacis, epidermide tectis; ostiolis papillatis; nucleo gelatinoso, initio albo; sporulis initio magnis, ellipsoideis, fere hyalinis, 30 ≃ 10, denique subclavatis, constricto-1-septatis, 24 ≃ 10, fuligineis.

Hab. in ramulis emortuis corticatis decorticatisque Evonymi europæi, nec non Ev. japonici in Italia, Gallia, Germania.

23. **Diplodia Cassinopsidis** Kalch. et Cooke in Grev. 1880, p. 19. — 1847
Sparsa, epidermide nigrificata tecta, nitida, centro pertusa; peritheciis subconicis; sporulis ellipticis, uniseptatis, nec constrictis, fuscis, 22 ≃ 10.

Hab. in ramis Cassinopsidis capensis in Africa australi. — Habitus *Pemphidii.*

24. **Diplodia ilicicola** Desm. Ann. Sc. nat. 1838, p. 311, Oudem. Mat. 1848
Myc. Néerl. II. p. 17, t. IV. f. 1. — Peritheciis subcutaneis translucentibus, gregariis, globulosis, ostiolo papillato erumpente; sporulis cylindraceo-oblongis, apice rotundatis, 20-25 ≃ 9-10, 1-septatis, leniter constrictis, fuligineis, initio hyalino-stipitatis.

Hab. in ramis Ilicis Aquifolii in Britannia, Hollandia, Gallia, Belgio, Italia, Amer. bor.

25. **Diplodia clandestina** Dur. et Mont. Fl. Alg. p. 575 et Syll. Crypt. 1849
n. 953. — Peritheciis innatis globosis sublocularibus, intus atris, epidermide (semper incolumi) tectis eidemque arcte adhærentibus; sporulis oblongis, magnis, fuscis, bilocularibus, subcirrose expulsis, 30 ≃ 10.

Hab. in ramulis Rhamni Alaterni, La Calle (Durieu). — *Dipl. Rhamni Alaterni* Grogn. in F. Gall. n. 219, in ramis Ala-

terni, Autun, vix recedit, sporulis paulo crassioribus, 30 ≃ 15. — β. **foliorum** Sacc. Mich. II. p. 537: peritheciis gregariis innato-erumpentibus, minoribus; sporulis oblongis, ad septum denique constrictis, 20-22 ≃ 9-12, initio stipitellatis, fuligineis. In foliis Rhamni Alaterni in Gallia et Italia.

26. **Diplodia Frangulæ** Fuck. Symb. myc. p. 174. — Peritheciis sparsis cæspitosisve, media magnitudine erumpentibus, atris, globosis, papillatis; sporulis oblongis, medio vix constrictis, fuscis, 24 ≃ 10. 1850

Hab. in ramis corticatis Rhamni Frangulæ in Germania, Italia. — Pycnidium *Cucurbitariæ Rhamni*. — β. **alpina** Sacc. Mich. II. p. 349. Peritheciis hinc inde aggregatis, erumpentibus; sporulis ovoideis, deorsum acutiusculis, 15-16 ≃ 8, uniseptatis, olivaceo-fuligineis, initio stipitellatis. — In ramis corticatis Rhamni alpini in Gallia meridionali.

27. **Diplodia albo-zonata** Dur. et Mont. Fl. Alg. p. 573 et Syll. n. 949. — Peritheciis globosis, sparsis, cortice fisso immersis latentibus, nucleo atro albo-zonato farctis poroque pertusis; sporophoris brevibus, sporulas primo continuas hyalinas, nucleolo granuloso incolori farctas, tandem oblongas fuscas septatas sustinentibus. 1851

Hab. in ramis Zizyphi Loti, Mascara in Algeria (Durieu).

28. **Diplodia Paliuri** Becc. Erb. critt. ital. Ser. I. n. 1290. — Peritheciis sparsis in cortice nidulantibus, epidermide arcte tectis, vix vertice emergentibus; sporulis oblongis, ovoideis, ovoideo-subacutatis variis, dilute fuligineis, ad septum non constrictis, 25-35 μ. longis; nucleo, ut in plerisque *Diplodiis*, albo-zonato. 1852

Hab. in ramulis emortuis Paliuri aculeati, Vittorio, Conegliano, Pola in Italia bor. nec non in Italia media

29. **Diplodia subsolitaria** (Schw.) Curr. Comp. Sphær. p. 284. fig. 198. *Sphæria subsolitaria* Schw. in Fr. Elench. II. p. 86. — Peritheciis erumpentibus, subsolitariis, intus albis, ostiolo prominulo; sporulis stipitatis, ellipsoideis v. subpiriformibus, obsolete 1-septatis, dilute fuligineis, 24 ≃ 10. 1853

Hab. in ramis Rhois in Carolina et Pensylvania. — Forte *Physalospora subsolitaria* (Fr.) Syll. I. p. 443 eadem est, ascis a Friesio cum sporulis male commutatis.

30. **Diplodia Rhois** Sacc. M. V. n. 1021 et Mich. I. p. 254. — Peritheciis gregariis vel hinc inde aggregatis, epidermide pustulata tectis, tandem erumpentibus, globosis, papillatis, 20-22 ≃ 8-10, fuligineis. 1854

Hab. in ramis emortuis Rhois glabræ, jam cultæ, in silva

Montello Ital. bor. socia *Botryosphæria Berengeriana*. — A *Dipl. rhoina* satis differre videtur.

31. **Diplodia resurgens** C. et Hark. in Grevillea n. 64. — Gregaria, erumpens, demum superficialis; perithecis globosis, atris, parvulis, nec papillatis, pertusis; sporulis anguste ellipticis, utrinque rotundatis, uniseptatis, nec medio constrictis, læte brunneis, 12–14 ≈ 4. 1855

Hab. in ramis Rhois trilobatæ in California. — A *Dipl. microspora* distinguenda.

32. **Diplodia rhoina** C. et Harkn. Grev. 1880, p. 6. — Sparsa, erumpens; perithecis subglobosis, atris; sporulis ellipticis, uniseptatis, non constrictis, brunneis, 25–28 ≈ 10–12. 1856

Hab. in ramulis Rhois trilobæ in California.

33. **Diplodia Wistariæ** Paul Brunaud in Roum. Revue Mycol. IV. p. 226. — Perithecis sparsis vel densis, globulosis vel globuloso-depressis, tectis, dein leniter erumpentibus, nigris, lucidis, pertusis, ¼ mill. diam.; sporulis oblongis, utrinque rotundatis, 1-septatis, sæpe 2-guttulatis, medio constrictis, fuligineis, 20–22 ≈ 8–9. 1857

Hab. in ramulis emortuis Wistariæ sinensis, Saintes Galliæ.

34. **Diplodia Gleditschiæ** Pass. Cfr. Sacc. Syll. II. p. 310. — Perithecis sæpe seriatim gregariis minutis e sphærico depressis, papillatis, atris, subcutaneo-erumpentibus; sporulis didymis, leniter constrictis, 20–25 ≈ 8–10, fuligineis, demum opacis. 1858

Hab. in ramulis corticatis emortuis Gleditschiæ Triacanthi in Italia boreali. — Pycnidium *Cucurbitariæ Gleditschiæ*. — β. **leguminum**: perithecis subsparsis; sporulis obtusis, pedicellatis, constricto-1-septatis, 20–22 ≈ 8, fuligineis. In legumine Gleditschiæ in Germania et Gallia.

35. **Diplodia Sophoræ** Speg. et Sacc. Mich. I. p. 485 et II. p. 268. — Perithecis subcutaneis, epidermide pustulata et infuscata velatis, dein semierumpentibus, gregariis vel hinc inde paucis aggregatis, globosis, mediocribus, atris, ostiolo minuto pertusis, rugulosis, nucleo primitus albido; sporulis oblongis, diu hyalinis, 24 ≈ 10, stipitellatis, tandem constricto-didymis, 20 ≈ 12, pallide fuligineis. 1859

Hab. in ramis Sophoræ japonicæ, Conegliano, Susegana, Padova in Italia boreali.

36. **Diplodia Pterocarpi** Cooke in Grev. 1882, pag. 76. — Sparsa, semiimmersa, punctiformis; perithecis atris, opacis, subglobosis; sporulis ovato-ellipticis, obtusis, uniseptatis, fuscis, vix constrictis, 10–12 ≈ 6–7. 1860

Hab. in cortice Pterocarpi indici, Malacca (Maingay).

37. **Diplodia profusa** De Not. Micr. Ital. Dec. IV. n. 8. — Perithe- 1861
ciis depresse globosis, papillatis, subcutaneo-erumpentibus, gregariis vel hinc inde subcongestis; sporulis obovatis, fuscis, 22 ≃ 12, diu continuis, tandem 1-septatis, leniter constrictis, 20 ≃ 9-10, saturatioribus.

Hab. in ramis corticatis Robiniæ Pseudacaciæ in Italia, frequentissima. — Pycnidium *Cucurbitariæ elongatæ.*

38. **Diplodia lulibrissin** Speg. Mich. I. p. 484. — Peritheciis primo 1862
sub epidermide nidulantibus, dein erumpentibus, nigricantibus, subglobosis, papillatis; sporulis, 20-25 ≃ 10-12, dense fuligineis, medio 1-septato-constrictis.

Hab. in ramulis emortuis Albizziæ Julibrissin, Conegliano in Italia bor.

39. **Diplodia Farnesiana** Sacc. M. V. n. 350 et F. Ven. Ser. V. n. 367. 1863
— Peritheciis majusculis, globosis, papillatis, cæspitulosis, erumpentibus; sporulis oblongis, 20-22 ≃ 8, medio constricto-1-septatis, fuligineis.

Hab. in ramulis corticatis emortuis Acaciæ Farnesianæ, Padova in Ital. bor.

40. **Diplodia lata** C. et Harkn. in Grevillea. — Gregaria, tecta; pe- 1864
ritheciis globoso-depressis, atris, in cortice nidulantibus, vix elevatis; sporulis ellipticis, uniseptatis, utrinque rotundatis, medio constrictis, atro-fuscis, 25 ≃ 16-18.

Hab. in ramis Acaciæ in California. — Sporulis latissimis distincta.

41. **Diplodia Acaciæ** Penz. et Sacc. F. Mortol. n. 31, tav. V. fig. 16. 1865
— Peritheciis sparsis vel laxe gregariis, hypodermicis, dein ex epidermidis fissura longitudinali prorumpentibus, majusculis, hemisphæricis, vix papillatis, duris, carbonaceis; sporulis oblonge ellipticis, utrinque rotundatis, uniseptatis, medio vix restrictis, atro-fuscis, levibus, 23-26 ≃ 10-12; basidiis simplicibus, continuis, hyalinis, brevibus, 7-8 ≃ 3-4.

Hab. in ramulis emortuis Acaciæ sp., Mortola Italiæ borealis (O. Penzig).

42. **Diplodia Siliquastri** West. Bull. Soc. Belg. II. p. 244 (1864). Pas- 1866
ser. F. Parm. in Comm. Critt. II. p. 438 (1867). — Peritheciis sparsis, nigris, epidermide dein laciniatim fissa tectis, prominulis, ostiolo poroso; sporulis ovoideis v. ellipsoideo-oblongis, 1-septatis, fuligineis, 20 ≃ 10, interdum constrictis.

Hab. in ramis dejectis v. emortuis Cercidis Siliquastri in Belgio et Italia boreali.

43. **Diplodia rudis** Desm. et Kickx in Rech. Cent. IV. p. 27 (1849). 1867
Diplodia heteromorpha West. 5 Not. p. 17. — Crusta stromatica nigra carbonacea, initio subcutanea, dein subsuperficiali tumida, epidermide tecta, dein cincta, subinde processibus inæqualibus, divergentibus peritheciophoris, conspersa; perithecis sphæricis, membranaceis, nigris, papillatis, sæpe, cortice secedente, circumscissis; sporulis brunneis diu continuis ovoideis, dein 2-locularibus, leniter constrictis, 20–25 ≃ 9–10, brevi-stipitatis.

Hab. in ramis trunci emortui Cytisi Laburni in Gallia, Belgio, Suecia, Germania, Italia. — Contextus perithecii pallide fuscus; sporulæ immaturæ oblongæ, 30 ≃ 12–14, granulosæ, hyalinæ.

44. **Diplodia nigricans** Sacc. Mich. II. p. 269. — Perithecis epider- 1868
mide tumidula tandem fissa velatis, globulosis, vix papillatis aterrimis; sporulis initio hyalinis, dein flavis, continuis, stipitellatis, dein 1-septatis, vix constrictis, 20 ≃ 8, olivaceo-fuscis.

Hab. in ramulis Cytisi nigricantis in silva Montello Italiæ borealis.

45. **Diplodia Ulicis** Sacc. et Sp. Mich. I. p. 353. — Perithecis gre- 1869
gariis subcutaneis, dein erumpentibus, globosis, $^1/_3$ mill. diam., brevissime papillatis; sporulis ovoideis vel ellipsoideis utrinque obtusiusculis, plerumque continuis, 20–25 ≃ 10–11, olivaceo-fuligineis, sæpius 1-2-guttulatis, basidiis filiformibus, 5 ≃ 1, hyalinis fultis.

Hab. in ramulis putrescentibus Ulicis europæi, Susegana in Italia boreali.

46. **Diplodia Sarothamni** C. et Hark. in Grevillea n. 64. — Gregaria 1870
vel sparsa, tecta, subtiliter elevata, ostiolo atro pertusa; perithecis depressis atris; sporulis elongato-ellipticis, obtusis, uniseptatis, vix constrictis, fuscis, 30 ≃ 10.

Hab. in ramis Sarothamni in California.

47. **Diplodia Cathartocarpi** B. et Br. Fungi of Ceyl. n. 787. — Peri- 1871
theciis congestis e macula pallida oriundis, minutissimis, epidermidem elevantibus, ostiolo latiusculo; sporulis oblongis utrinque subattenuatis, 13–25 ≃ 5.

Hab. in utraque pag. foliorum Cassiæ Fistulæ, Dambool Ceylon.

48. **Diplodia Amorphæ** (Wallr.) Sacc. *Sphæria Amorphæ* Wallr. Comp. 1872
n. 3770. Rabenh. Herb. myc. II. n. 732! — Perithecis minutis sparsis v. aggregato-subseriatis nigris globosis, præter verticem

umbonatum summam epidermidis pelliculam subtiliter elevantem hypophlœodeis eamque dein scissam infarcientibus, nucleo gelatinoso atro; sporulis ellipsoideo-oblongis, stipitatis constricto-1-septatis, 22–24 ≃ 10, fuligineis.

Hab. ad ramos novellos Amorphæ fruticosæ frigore tactos in Germania.

49. **Diplodia Spegazziniana** Roum. et Sacc. Mich. II. p. 622. — Peritheciis gregariis v. hinc inde subaggregatis, subcutaneo-erumpentibus, ½ mill. diam., globoso-depressis, vix papillatis, atris; sporulis ellipsoideis, utrinque rotundatis, 21–23 ≃ 10–12, constricto-1-septatis, fuligineis; basidiis teretibus, 8–10 ≃ 3–3,5, hyalinis. 1873

Hab. in ramis corticatis emortuis Poincianæ pulcherrimæ e Rio de la Plata in hortis Toulouse cultæ (Roumeguère).

50. **Diplodia fissa** Dur. et Mont. Fl. Alg. et Syll. n. 950. — Peritheciis globosis innato-prominulis, sparsis aut glomeratis, extus intusque fuscis, vertice rimose dehiscentibus, epidermide longitrorsum rupta semitectis; sporulis primo subglobosis hyalinis, tandem oblongis fuscis. 1874

Hab. in ramis Rosæ sempervirentis, Alger (Durieu). — An *Sphæria fissa* Pers.?

51. **Diplodia Rosæ** B. et C. North Am. Fungi n. 421, nec West. — Peritheciis epidermide tectis, sparsis vel congestis; sporulis oblongis, 12–13 ≃ 6, utroque loculo 1-nucleato. 1875

Hab. in ramis Rosarum, New England in America boreali (Russell).

52. **Diplodia spurca** (Wallr.) Sacc. *Sphæria spurca* Wallr. Fl. crypt. n. 3769. — Peritheciis parvis nigro-fuscis, tectis, sparsis tenacellis, e basi depressa in verticem hemisphæricum sordide fuscum incusum nigro-papillatum, dein ostiolo æquali pertusum abeuntibus summamque epidermidis pelliculam parcissime scissam elevantibus, nucleo atro-viridi; sporulis oblongis, obtusis, uniseptatis, fuligineis. 1876

Hab. sub epidermide ramulorum Rosarum silvestrium in Germania.

53. **Diplodia Rosarum** Fr. Summa Veg. p. 417. *D. Rosæ* West. Not. VI. p. 21, Kickx Fl. Crypt. Fl. I. p. 395. — Peritheciis minutis, sparsis, nigro-brunneolis, sphærico-papillatis, epidermide atratula tectis; sporulis ellipsoideo-oblongis, constricto-1-septatis, fuligineis, 25 ≃ 9. 1877

Hab. in ramis Rosæ centifoliæ, R. caninæ etc. in Sue-

cia, Germania, Italia, Belgio. — Sec. Fuckel pycnidium *Otthiæ Rosæ*.

54. **Diplodia Kerriæ** Berk. sec. Kickx Fl. cr. Fl. I. p. 399. *Diplodia Corchori* (Desm.) Kickx l. c. — Peritheciis sparsis, perexiguis, epidermide velatis, globulosis, subastomis, nigris; sporulis ellipsoideis oblongis, utrinque rotundatis, constricto-1-septatis, 20–22 ≃ 7,7–8, fuligineis. 1878

Hab. in ramulis Kerriæ japonicæ in Gallia, Belgio, Italia. — Nomen *D. Kerriæ* prætuli, nam *Kerria japonica* non nisi gravi errore ad *Corchorum* relata fuit.

55. **Diplodia Rubi** Fr. Summa Veg. Scand. p. 417. — Peritheciis sparsis, epidermide velatis, prominentibus, subglobosis, nigris; sporulis ellipticis, atro-brunneis, uniseptatis, valde constrictis, 18–20 ≃ 8–10. 1879

Hab. in sarmentis emortuis Rubi fruticosi in Italia, Germania, Gallia, Suecia et America boreali. — Pycnidium *Didymosphæriæ diplosporæ*.

56. **Diplodia rubicola** Sacc. Mich. I. p. 256. — Peritheciis gregariis, globosis, exquisite papillatis, nigris, initio tectis, dein erumpentibus; sporulis obovatis, 25–28 ≃ 12, diu continuis, olivaceo-fuligineis, basidiis filiformibus, 10–12 ≃ 3, hyalinis suffultis. 1880

Hab. in ramis putrescentibus Rubi fruticosi, Padova Ital. bor. — A *Dipl. Rubi* Fr. peritheciis majoribus, prominentibus; sporulis majoribus, diu (semper?) continuis etc. recedit.

57. **Diplodia seriata** De Not. Micr. Ital. Dec. IV. n. 6. — Peritheciis exiguis, sæpius seriatim gregariis, globoso-depressis, papillatis, pertusis, epidermide velatis, dein subliberis; sporulis stipitellatis, ellipsoideo-oblongis, utrinque rotundatis, hyalinis, dein badio-fuligineis, plasmate bipartito obsolete 1-septatis, 17–18 ≃ 7–9. 1881

Hab. ad sarmenta sicca Rubi fruticosi, Torino Ital. bor.

58. **Diplodia Preussii** Sacc. *Sporocadus Rubi* Preuss. Hoyersw. n. 151. — Gregaria, cæspitosa vel solitaria erumpens; peritheciis nigris, oblongis vel mammillatis; ostiolis papillatis, prominulis; sporulis oblongis medio contractis didymis, atro-fuscis. 1882

Hab. in ramulis dejectis Rubi Idæi, Hoyerswerda.

59. **Diplodia Pruni** Fuck. Symb. p. 169. — Peritheciis tectis, 5–8-aggregatis et epidermidem demum fissam pustulatim elevantibus, globosis, atris, papillatis; sporulis oblongis, fuscis, dein constricto-1-septatis, 18–22 ≃ 8–10. 1883

Hab. in ramulis corticatis Pruni domesticæ, spinosæ et

Armeniacæ in Italia, Germania, Gallia. — Pycnidium *Oïdiæ Pruni.*

60. **Diplodia Roumegueri** Sacc. Mich. II. p. 106. *D. laurina* Roum. F. Gall. n. 217, nec Sacc. — Peritheciis subcutaneo-erumpentibus, globoso-papillatis, gregariis, atris; sporulis constricto-didymis, 25 ≃ 13, fuligineis, stipite dimidio breviore suffultis. 1884

Hab. in ramis emortuis Pruni lusitanicæ et P. Laurocerasi, Prades in Gallia merid. (Roumeguère) et in Italia boreali (Saccardo).

61. **Diplodia Padi** Brun. in Rev. Myc. IV. p. 226. — Peritheciis sparsis, minutis, nigris, innato-erumpentibus; sporulis oblongis, utrinque rotundatis, 1-septatis constrictisque, fuligineis, 22 ≃ 8-10, loculo super. crassiore; basidiis hyalinis. 1885

Hab. in ramis emortuis Pruni Padi, Saintes in Gallia et in Arduennis.

62. **Diplodia patellaris** (Wallr.) Mont. Cent. VIII. p. 82, *Sph. patellaris* Wallr. Fl. crypt. n. 3781. — Peritheciis sparsis, orbiculatis, atris, subcutaneis, senio patellaribus, basi convexiuscula latiore epidermidi adnatis illamque dein vertice plano, primum membranula delicatissima concolore cum cubilibus confluente, fidentibus; sporulis oblongis, 1-septatis, leniter constrictis, 25 ≃ 10, atro-nitidis prorumpentibus et in massam palpabilem coactis. 1886

Hab. ad ramulos languidos Pruni domesticæ in Thuringia.

63. **Diplodia Cratægi** West. in Kickx Fl. Fl. I. p. 393 (1867). Fuck. Symb. p. 393 (1869). — Peritheciis gregariis v. subseriatis, primo tectis, demum erumpentibus, minutis, globosis, atris; ostiolis conicis; sporulis oblongis, 1-septatis, atro-fuscis, 24 ≃ 8, loculis subinæqualibus. 1887

Hab. in ramis siccis Cratægi Oxyacanthæ in Belgio, Italia, Germania. — Species Westendorpii non differt ab homonyma seriore Fuckelii.

64. **Diplodia Cydoniæ** Sacc. Mich. II. p. 269, Sacc. et Schulz. Micr. Slav. n. 32. — Peritheciis erumpentibus, gregariis, quandoque 3-4-aggregatis e globoso depressis, ostiolo papillulato brevissimo, atris; sporulis ovoideis, 20-24 ≃ 11-12, 1-septatis, non vel vix constrictis, fuligineo-olivaceis. 1888

Hab. in ramis corticatis Cydoniæ vulgaris in Italia bor., Gallia et Slavonia. — Var. β. **libera** Schulz et Sacc. l. c. peritheciis subsuperficialibus, globoso-conicis, magis discretis; sporulis 17-25

≃ 10, ceterum similibus. In ramis decorticatis Cydoniæ pr. Vinkovce in Slavonia.

65. **Diplodia Persicæ** Sacc. Mich. II. p. 267. — Peritheciis gregariis subcutaneo-erumpentibus, globulosis, papillatis, atris, contextu parenchymatico fuligineo; sporulis oblongis, 18–20 ≃ 8, didymis, leniter constrictis, denique fuligineis. 1889

Hab. in ramis Persicæ vulgaris, Conegliano in Ital. bor.

66. **Diplodia Amygdali** Cooke et Hark. in Grevillea n. 64. — Gregaria, tecta, corticem vix elevans; peritheciis globoso-depressis, atris, papillatis; sporulis ellipticis, obtusis, uniseptatis, nec constrictis, fuscis, 20–22 ≃ 8. 1890

Hab. in ramis Amygdali in California; an potius in Armeniaca, nam *Apricot* indicatur. — Distincta a *Diplodia Cerasorum* Fuck.

67. **Diplodia maura** C. et Ell. in Grevillea. — Gregaria; peritheciis globosis, atris, tectis, demum epidermide stellato-fissa; sporulis ellipticis, brunneis, uniseptatis, 25 ≃ 10. 1891

Hab. in ramis Piri communis, New Jersey in Amer. bor.

68. **Diplodia radiciperda** Thüm. Symb. myc. Austr. I. p. 10. — Peritheciis aggregatis, elevatis, gregariis, liberis, subsphæricis, epidermidem perforantibus, oculo nudo *Cucurbitariam* imitantibus, atris, magnis; sporulis ellipsoideis vel ovatis, medio non constrictis, uniseptatis, apice interdum minime acutatis, episporio levi, spadiceis, 17 ≃ 10. 1892

Hab. in radicibus Piri communis adhuc tenellis emortuis, Klosterneuburg in Austria.

69. **Diplodia piriformis** (Pr.) Sacc. *Sporocadus piriformis* Preuss F. Hoyersw. n. 52. — Cæspitosa, sublibera, epidermidem tollens; peritheciis sphæricis, ostiolis papillatis atro-fuscis, corneis; basidiis filiformibus; sporulis piriformibus, magnis, uniseptatis, cum guttulis oleosis, magnis, repletis, cacao-fuscis. 1893

Hab. ad ramos Mali, Hoyerswerda.

70. **Diplodia Pseudo-Diplodia** Fuck. Symb. myc. p. 393. — Peritheciis gregariis, tectis, globosis, atris, ostiolis conicis, obtusis, per epidermidem demum erumpentibus et olivaceo-inquinantibus; sporulis oblongo-ovatis, non septatis, fuscis (vel tandem 1-septatis 25 ≃ 12). 1894

Hab. in ramulis siccis v. adhuc vivis Piri Mali et Piri communis in Rhenogovia, Italia et Gallia.

71. **Diplodia Cerasorum** Fuck. Symb. myc. p. 154 Mich. II. p. 270. — 1895

Peritheciis majusculis, sparsis v. subaggregatis, atris, intus cavis initioque albis, plerumque tectis, rarius erumpentibus; sporulis nunc continuis, 23 ≃ 10, nunc bilocularibus vix constrictis, 24–25 ≃ 12, fuligineis.

Hab. in ramis corticatis Cerasi in Germania et Italia bor. — Pycnidium *Massariellæ vibratilis.*

72. **Diplodia spiræina** Sacc. Reliq. Libert. IV. n. 139. — Peritheciis subcutaneo erumpentibus, globulosis gregariis, vix papillatis, atris; sporulis ovato-oblongis, 1-septatis, vix constrictis, 20–22 ≃ 10, fuligineis; basidiis bacillaribus dimidio brevioribus, hyalinis. 1896

Hab. in ramulis corticatis Spirææ salicifoliæ in Arduennis (Libert). — Pycnidium *Otthiæ Spirææ* Fuck.

73. **Diplodia Spirææ** Thüm. Contr. F. Litor. n. 143, tab. I. fig. 9. — Peritheciis majusculis, sæpe confluentibus, erumpentibus, gregariis, subdisciformibus, applanatis, atris; sporulis ovoideo-clavatis, impellucidis, obscure castaneis, 14–20 ≃ 8. 1897

Hab. ad ramulos aridos Spirææ salicifoliæ, hieme prope urbem Gorizia.

74. **Diplodia Sorbi** Sacc. Mich. I. p. 518. — Peritheciis globoso-depressis, subsparsis, tectis, vix erumpentibus, ½ mill. diam.; sporulis ovato-oblongis, 24 ≃ 13, diu continuis hyalinisque. 1898

Hab. in ramis Sorbi domesticæ pr. Saintes in Gallia.

75. **Diplodia Amelanchieris** Sacc. Mich. I. p. 518. — Peritheciis subsparsis, globulosis, tectis, nigris, ¼ mill. diam.; sporulis oblongo-didymis, 25 ≃ 9–10, fuligineis. 1899

Hab. in ramis Amelanchieris vulgaris pr. Saintes in Gallia (Brunaud).

76. **Diplodia Punicæ** Paul Brunaud in Roum. Revue Mycol. IV. p. 226. — Peritheciis gregariis, globuloso-papillatis, atris; sporulis mediò constrictis, brunneis, 18–22 ≃ 8–9. 1900

Hab. in ramulis emortuis Punicæ Granati, Saintes in Gallia.

77. **Diplodia Chimonanthi** Sacc. Mich. II. p. 265. — Peritheciis gregariis, globulosis, papillatis, atris, subcutaneis, dein erumpentibus; contextu parenchymatico fuligineo; sporulis constricto-didymis, 18 ≃ 8, fuligineis breve stipitatis. 1901

Hab. in ramis Chimonanthi præcocis, Selva in Italia boreali.

78. **Diplodia Calycanthi** (Schw.?) Speg. Mich. I. p. 485, *Sphæria Calycanthi* Schw.? — Peritheciis subepidermicis, erumpentibus, atris, lenticularibus, rugulosis, 200–300 μ. diam.; sporulis primo luteolis, 1902

dein olivaceo-fuscis, 1-septato-constrictis, ovoideis vel ellipticis, 19-22 ≃ 9-10.

Hab. in ramulis emortuis Calycanthi floridi, Conegliano in Italia boreali.

79. **Diplodia Lagerstrœmiæ** Speg. Mich. I. p. 485. — Peritheciis atris, papillulatis, sublenticularibus, erumpentibus, 200-250 μ. d., ostiolo late hiante pertusis; sporulis opace olivaceo-fuligineis, 1-septatis ad septum non vel vix constrictis, utrinque obtusiusculis, 18-20 ≃ 8-10. 1903

Hab. in ramulis emortuis dejectis Lagerstrœmiæ indicæ, Conegliano in Ital. bor.

80. **Diplodia Tamaricis** Rabenh. Hedw. 1873, p. 141. — Peritheciis .....; sporulis oblongis, utroque polo late rotundatis, fuscis, 1-septatis, 14-16 ≃ 8-10. 1904

Hab. in ramulis Tamaricis in Germania.

81. **Diplodia tamaricina** Sacc. Mich. I. p. 518 (sub nom. *D. Tamaricis*, sed non Rabenh.). — Peritheciis gregariis, subcutaneo-erumpentibus, globoso-papillatis 1/3 mill. diam. nigris; sporulis ovato-oblongis, constricto-didymis, 20 ≃ 12, stipitatis, fuligineis. 1905

Hab. in ramis Tamaricis anglicæ pr. Saintes in Gallia (Brunaud).

82. **Diplodia Australiæ** Speg. F. Arg. Pug. I. p. 190. — Peritheciis densiuscule gregariis, lenticularibus, minutis, 1/6-1/5 mill. diam., cortici immersis, atris, ostiolo parvulo impresso donatis; contextu parenchymatico, membranaceo-subcarbonaceo; sporulis ellipticis, ex ostiolo protrudentibus atque areolam minutam punctiformem, atram efficientibus, medio 1-septatis, non vel vix constrictis, 20-22 ≃ 10-12, amœne fuligineis. 1906

Hab. in cortice secedente truncorum Eucalypti Globuli ubique vulgatissima in Argentina.

83. **Diplodia Eucalypti** Cooke et Harkn. in Grevillea 1881, p. 127. — Sparsa, tecta, demum erumpens; peritheciis carbonaceis, globosis, atris; sporulis ellipticis, brunneis, uniseptatis, medio leniter constrictis, 22-25 ≃ 9-12, subinde 30 ≃ 11. 1907

Hab. in cortice Eucalypti in California. — Diversa satis a *Diplodia Molleriana* Thüm.

84. **Diplodia tenuis** Cooke et Harkn. in Grev. 1881, p. 127. — Peritheciis sparsis, globosis, obtusis, membranaceis, atris, dein prominulis; sporulis ellipticis, uniseptatis, hyalinis, 12 ≃ 4. 1908

Hab. in corticibus emortuis Eucalypti in California.

85. **Diplodia Catappæ** Cooke in Grevillea. — Peritheciis globosis, pri- 1909

mo tectis, dein erumpentibus; sporulis variabilibus, demum 1-septatis, atro-brunneis, utrinque subnucleatis.

Hab. in nucibus Terminaliæ Catappæ, Pondicherry, Bengala in Asia.

86. **Diplodia Opuntiæ** Sacc. Mich. II. p. 267. — Peritheciis sparsis, epidermide tumida et nigricante velatis erumpentibusve, globulosis, obtuse papillatis; sporulis oblongis 20–22 ≃ 10–11, leniter constrictis, atrofuligineis (initio hyalinis, guttulatis, stipitellatis). 1910

Hab. in cladodiis Opuntiæ nanæ in collibus Euganeis, Montegrotto etc. in Ital. bor.

87. **Diplodia Ribis** Sacc. Mich. I. p. 518. — Peritheciis gregariis v. subaggregatis, subcutaneis, globoso-papillatis, $^1/_3$ mill. diam. atris; sporulis stipitatis, oblongo-ovatis, diu continuis, dein constricto-1-septatis, fuligineis, 25 ≃ 12. 1911

Hab. in ramis Ribis rubri in Italia boreali et Gallia. — Forte status secund. *Cucurbitariæ Ribis* Niessl.

88. **Diplodia Grossulariæ** Sacc. et Schulz. Micr. Slav. n. 31. Schulz. Ill. fung. Slav. n. 794. — Peritheciis gregariis, peridermio pustulato tectis, globulosis, 0,3 mill. diam., atris intus et extus, vertice obtusiusculis; sporulis ovato-oblongis, didymis, constrictis, 18–26 ≃ 8–9, fuligineis. 1912

Hab. in ramis Ribis Grossulariæ pr. Vinkovce in Slavonia. 1913

89. **Diplodia Hederæ** Fuck. Symb. myc. p. 394, t. II. f. 35. — Peritheciis gregariis, erumpentibus, media magnitudine, globosis, vertice conicis, perforatis, atris; sporulis ovato-oblongis, didymis, loculis uniguttulatis, atro-fuscis, 24 ≃ 10.

Hab. in ramis foliisque Hederæ Helicis in Germania et Italia boreali.

90. **Diplodia mamillana** Fr. Summa Veg. p. 417. *Sphæria mamillana* Fr. S. M. II. p. 487 p. p. *Diplodia Corni* West. — Sparsa; peritheciis hemisphærico-prominulis, epidermide nigrefacta adnata tectis; ostiolo papillæformi limbo cincto; sporulis ovoideis, constricto-1-septatis, fuligineis, 20–22 ≃ 8. 1914

Hab. in ramulis corticatis Corni sanguineæ in Suecia, Germania, Belgio, Gallia, Italia.

91. **Diplodia aucubicola** Sacc. *D. Aucubæ* Sacc. F. Ven. Ser. IV. sub n. 8, nec West. — Peritheciis gregariis subcutaneis, globoso-depressis, papillatis; sporulis ovato-oblongis, 25–28 ≃ 12–14, diu hyalinis, dein fuligineis. 1915

Hab. in ramis ramulisque Aucubæ japonicæ, Padova Ital. bor.

92. **Diplodia paupercula** B. et Br. North Am. F. n. 419bis. — Peri- 1916
theciis minutis punctiformibus; sporulis oblongis vel obovoideis, 10 ≃ 5.

Hab. in ramis Loniceræ in Carolina inf. Amer. bor. — Var. **Platani** Cfr. B. et Br. Ann. N. H. n. 406: peritheciis initio tectis, dein liberis, globosis, ostiolo prominulo; sporulis minutis, 1-septatis, obovatis hyalinis, dein oblongis, brunneis. In ramis emortuis Platani, Batheaston in Britannia.

93. **Diplodia deflectens** Karst. Hedw. 1884, p. 18. — Peritheciis spar- 1917
sis vel laxe gregariis, peridermio tenuissimo, translucido, disco tantum fisso, arcte adhærente tectis, sphæroideo-vel oblongato-applanatis, demum poro sat lato apertis, basi filamentis paucis, brevibus, radiantibus, fuscescentibus obsessis, nigris, 2 μ. lat.; sporulis oblongatis vel subellipsoideis, utrinque vix vel leviter attenuatis, uniseptatis, ad septum vix vel leviter constrictis, dilutissime fuligineis, eguttulatis, 16-21 ≃ 7-8.

Hab. in ramulis emortuis Loniceræ in Fennia.

94. **Diplodia ascochytula** Sacc. Mich. II. p. 349. — Peritheciis gre- 1918
gariis et hinc inde in cæspitulos aggregatis, subsuperficialibus globoso-lenticularibus, 80 μ. diam. pertusis; sporulis breve fusoideis, 8-9 ≃ 2½-3, utrinque obtusiusculis, olivaceis.

Hab. in sarmentis decorticatis et sæpius infuscatis Loniceræ Periclymeni pr. Rouen in Gallia (Malbranche). — Habitus *Diplodiæ*, sed characteres potius *Ascochytæ*.

95. **Diplodia Loniceræ** Fuck. Symb. Myc. p. 141. — Peritheciis ma- 1919
jusculis in acervulos elongatos erumpentes dispositis, globoso-papillatis, atris subtilissime punctulatis; sporulis oblongo-didymis, atro-fuscis, medio vix constrictis, 28 ≃ 9.

Hab. in ramis putrescentibus Loniceræ Xylostei et Caprifolii in Germania, Italia et America boreali.

96. **Diplodia Symphoricarpi** Sacc. M. V. n. 336. Fungi Ven. Ser. V. 1920
n. 362 (1876), Cooke et Harkn. in Grevillea (1881). — Peritheciis nunc sparsis, nunc in acervulos parvos subaggregatis, epidermide tumidula primitus velatis, dein lacerata cinctis, globulosis, facile collabascentibus, papillulatis, atris; sporulis ovoideis, 20-24 ≃ 11-12, diu continuis, tandem didymis e lutescenti fuligineis, demum valde constrictis.

Hab. in ramulis Symphoricarpi racemosæ in Italia boreali et in California.

97. **Diplodia sambucina** Sacc. Mich. II. p. 268. — Peritheciis grega- 1921

riis subepidermicis, tandem erumpentibus et superficialibus, minutis, subglobosis, papillatis, aterrimis; sporulis ovato-oblongis, 18 ≃ 11, leniter constrictis, fuligineis.

Hab. in ramulis hornotinis Sambuci nigræ, Selva Ital. bor. et in Gallia.

98. **Diplodia microspora** B. et C. North Am. Fungi n. 422bis. — Peritheciis sparsis; sporulis oblongis minimis, 6–7 ≃ 3, pallide brunneis. 1922

Hab. in ramis Viburni opulifolii in Pensylvania Am. bor.

99. **Diplodia Lantanæ** Symb. Myc. 395. — Peritheciis majusculis, 8–12 in acervulos confluentibus, globosis irregularibusve, atris, supra levibus, infra subtiliter pilosis, papillatis, per corticis fissuras pustulatim erumpentibus; sporulis didymis, oblongis, fuscis 24 ≃ 8. 1923

Hab. in ramis siccis Viburni Lantanæ in Italia boreali et Rhenogovia.

100. **Diplodia Unedonis** Paul Brunaud. in Roum. Revue Mycol. IV. p. 226. — Peritheciis cortice immersis, tectis, dein suberumpentibus, sparsis vel aggregatis, minutis, nigris, poro pertusis; sporulis oblongis, 1-septatis, non vel leniter constrictis, 22–24 ≃ 9–10, fuligineis. 1924

Hab. in ramis emortuis Arbuti Unedonis, Saintes in Gallia.

101. **Diplodia inquinans** West. Not. II. p. 14. Kickx Fl. cr. Fl. I. p. 398. — Peritheciis globulosis, perexiguis, disseminatis, tectis, dein semiemersis, poro pertusis; sporulis ellipsoideo-oblongis, bilocularibus, constrictis, dein prorumpentibus et atro-fœdantibus, 25 ≃ 12–14. 1925

Hab. in trunco Fraxini Orni in Belgio, Italia, Germania, Gallia.

102. **Diplodia Jasmini** West. Not. V. p. 17. — Peritheciis (2–5) congregatis, globoso-papillatis, epidermide tectis, dein cinctis; sporulis oblongis, 30 ≃ 15, diu hyalinis et continuis, tandem bilocularibus, leniter constrictis, fuligineis. 1926

Hab. in ramulis Jasmini officinalis et fruticantis in Belgio, Italia et Gallia.

103. **Diplodia elæophila** Sacc. et Roum. in Revue Mycol. — Peritheciis subsparsis, initio tectis, globoso-conicis, $^1/_4$ mill. diam.; sporulis oblongo-ellipsoideis, stipitellatis, 30 ≃ 14, diu continuis hyalinis. 1927

Hab. in ramis Oleæ europææ in Algeria.

104. **Diplodia Licalis** West. in Bull. Ac. Brux. 1852, III. pag. 119. 1928
Diplodia Syringæ Auersw. in Fuck. Symb. p. 395 (1869). — Pe-

ritheciis sparsis v. gregariis, globuloso-papillatis, epidermide sæpe lineatim fissa tectis; sporulis ellipsoideis, dein 1-septatis leniterque constrictis, fuligineis, 22-28 ≃ 8-10.

Hab. in ramis corticatis emortuis Syringæ vulgaris in Belgio, Gallia, Italia, Germania, Austria, Britannia.

105. **Diplodia Ligustri** West. Bull. Belg. II. p. 244. Mich. II. p. 266. 1929
— Peritheciis gregariis, minutis, globuloso-papillatis, subcutaneo-erumpentibus, initio albo-nucleatis; sporulis oblongo-ellipsoideis, 26-28 ≃ 8-10, leniter constrictis, 1-septatis, fuligineis, stipitellatis.

Hab. in ramis emortuis Ligustri vulgaris in Belgio et Italia boreali. — An eadem ac *D. Mamma* Fuck.?

106. **Diplodia Mamma** Fuck. Symb. myc. p. 394. Oudem. Mat. Myc. 1930
II. p. 18. — Peritheciis subcutaneo-erumpentibus, nigris; sporulis ellipsoideis v. ovoideis, stipitellatis, 23-25 ≃ 9-13, diu hyalinis, continuis, tandem.....

Hab. in ramis emortuis Ligustri vulgaris in Germania, Hollandia. *Sphæria Mamma* Wallr. Comp. n. 3786 *Melomastiam* spectare mihi videtur.

107. **Diplodia Chionanthi** C. et Ell. in Grevillea. — Gregaria; peri- 1931
theciis tectis, papillatis, atris, ad basin mycelio profuso brunneo radiante cinctis; sporulis ellipticis, brunneis, uniseptatis, vix constrictis, 25 ≃ 10.

Hab. in ramis Chionanthi, New Jersey in Amer. bor.

108. **Diplodia Nerii** Speg. Mich. I. p. 486. — Peritheciis lenticula- 1932
ribus, subepidermicis, dein erumpentibus, atris, 200-250 μ. diam; sporulis ovoideis vel ellipticis, 1-septato-constrictis, olivaceo-fuligineis, 18-22 ≃ 8-10.

Hab. in ramulis et petiolis foliorum Nerii Oleandri, Conegliano in Italia boreali.

109. **Diplodia Catalpæ** Speg. Mich. I. p. 486. — Peritheciis subepi- 1933
dermicis, tectis, dein erumpentibus, globosis, atris papillulatis; sporulis oblongo-ellipsoideis, medio 1-septatis, non constrictis, fuligineo-olivaceis, 20-22 ≃ 8-11.

Hab. in ramulis emortuis Bignoniæ Catalpæ, Conegliano in Italia boreali.

110. **Diplodia Tecomæ** Pass. Hedw. 1877, p. 119. — Peritheciis sub- 1934
globosis erumpentibus, atris, rugulosis, papillatis, solitariis v. cæspitosis; sporulis plus minus oblongis, non constrictis, biloculatibus, castaneo-fuscis.

Hab. in ramulis aridis Tecomæ radicantis pr. Parma in Ita-

lia boreali. — β. **affinis**: peritheciis globoso-papillatis, majusculis; sporulis constricto-didymis, 20–23 ≃ 10, atro-fuligineis, stipitatis. In sarmentis Tecomæ, Toulouse in Gallia.

111. **Diplodia Incarvilleæ** Thüm. Contr. Myc. Lusit. n. 556. — Peritheciis aggregatis, globulosis, subrimosis, atris in cæspitibus gregariis, magnis, erumpentibus, liberis, ad basin epidermide cinctis, ostiolo obtuso-conico; sporulis oblongis, e cellulis duabus fere globosis compositis, utrinque rotundatis, medio valde constrictis, pulchre spadiceis, 20 ≃ 12,5. 1935

Hab. in ramulis emortuis Incarvilleæ sinensis in horto botanico Coimbra Lusitaniæ (Moller).

112. **Diplodia imperialis** Sacc. Mich. I. p. 96. F. it. fig. 98. — Peritheciis globulosis, subsuperficialibus, 100–110 μ. diam., breve papillatis, fuligineo-atris, membranaceis; sporulis oblongo-fusoideis, minutis, 8–10 ≃ 3, 1-septatis, non v. vix constrictis pallide olivaceis. 1936

Hab. in ramis decorticatis putrescentibus Paulowniæ imperialis, Conegliano in Ital. bor. (Spegazzini).

113. **Diplodia laurina** Sacc. M. V. n. 508. F. Ven. Ser. V. n. 370 *Dipl. melœna* var. *Lauri* Roum. F. Gall. n. 121. — Peritheciis sparsis, subcutaneis, atris, minutis; sporulis oblongis, 29 ≃ 9, didymis, leviter constrictis, intense fuligineis. 1937

Hab. in ramis putrescentibus Lauri nobilis, Selva, Colfosco (Treviso) in Ital. bor., et Perpignan in Gallia.

114. **Diplodia Edgworthiæ** Sacc. Myc. Ven. 1529, et Mich. II. 537. — Peritheciis gregariis, subcutaneo-erumpentibus; sporulis oblongis; ad septum vix constrictis, 30 ≃ 15, fuligineis; initio stipitellatis. 1938

Hab. in ramis putrescentibus Edgworthiæ chrysanthæ, Padova in Ital. bor. (Bizzozero).

115. **Diplodia Pittospori** Cooke et Hark. in Grevillea n. 64. — Sparsa vel subgregaria, tecta; peritheciis subglobosis, atris, ostiolo punctiformi erumpente; sporulis ellipticis, diu hyalinis, continuis, demum uniseptatis, fuscis, nec constrictis, 20 ≃ 12. 1939

Hab. in ramis Pittospori in California.

116. **Diplodia cytosporoides** Roum. Fungi Gall. n. 23. — Peritheciis numerosis, nigris, subglobosis, innato-prominulis diuque epidermide tectis, poro pertusis; sporulis oblongis, obtusis, fuligineis, demum bilocularibus, 2-guttatis; basidiis..... non visis. 1940

Hab. in ramis emortuis Garryæ ellipticæ, Toulouse in Gallia.

117. **Diplodia Elæagni** Pass. Micr. Ital. n. 15. — Peritheciis epiphyl- 1941

lis, sparsis, atris, subglobosis, scabris, epidermide rupta cinctis; sporulis oblongo-ellipticis initio crassiuscule stipitatis, integris, hyalinis vel violaceis, dein castaneis, medio septatis, non constrictis, 25 ≃ 8-10.

Hab. ad folia decidua Elæagni reflexi in horto botanico parmensi in Italia boreali.

118. **Diplodia buxella** Sacc. Mich. II. p. 266. — Peritheciis gregariis subcutaneis, sed tandem cortice delapso, superficialibus, minutis, globuloso-conoideis, atro-nitidulis (Melanommatis facie); sporulis oblongis, 18 ≃ 7-8, 1-septatis, lenissime constrictis, pallide fuligineis. 1942

Hab. in ramis Buxi sempervirentis, Selva in Italia bor. — A *Dipl. Buxi* Fr. et *Dipl. buxicola* Sacc. peritheciis sporulisque minoribus etc. diversa.

119. **Diplodia buxicola** Sacc. Mich. I. p. 518. — Peritheciis gregariis aggregatisve, initio subcutaneis, dein, cortice secedente, subsuperficialibus, globulosis, papillatis, $^1/_3$ mill. diam., aterrimis; sporulis ovato-oblongis, constricto-1-septatis, 25 ≃ 12, atrofuligineis. 1943

Hab. in ramis semidecorticatis Buxi sempervirentis, Saintes et Toulouse in Gallia.

120. **Diplodia Celtidis** Roum. in Fung. Gall. n. 19. Mich. II. p. 108. — Peritheciis gregariis subcutaneis, atris, globulosis; sporulis didymis, crassis, 22 ≃ 12, diu hyalinis, dein fuligineis, stipitellatis. 1944

Hab. in ramis corticatis Celtidis australis, Bagnouls sur mer in Gallia merid.

121. **Diplodia argentina** Sp. F. Arg. Pug. II. n. 129. — Peritheciis hemisphæricis vel globoso-depressis, immersis vel in ramulis junioribus decorticatis superficialibus, atris, ostiolo papillato pertusis, $^1/_2$-$^1/_3$ mill. diam., carbonaceis; sporulis cylindraceo-ellipticis, utrinque obtuse rotundatis, 20-25 ≃ 10-12, medio 1-septatis, non constrictis, fuligineis. 1945

Hab. in cortice secedente vel ramulis Celtidis Talæ prope San José de Flores et Palermo in Argentina.

122. **Diplodia melæna** Lév. Ann. Sc. nat. 1846, p. 292. — Peritheciis innatis, epidermide tectis, gregariis, globosis, ostiolo obsoleto; sporulis oblongis, 20-22 ≃ 8-10, 1-septatis, fuligineis, mox effluentibus matricemque atro-fœdantibus. 1946

Hab. in ramis corticatis Ulmi campestris in Gallia, Italia, Germania. — An exemplaria in Lauro et Ailantho indicata huc reapse spectent, non liquet. — Pycnidium *Cucurbitariæ naucosæ*, teste Fuck.

123. **Diplodia tephrostoma** Lév. Ann. Sc. nat. 1846, p. 291. — Peritheciis sparsis vel confertis, globosis, nigris, epidermide laciniatim fissa cinctis, ostiolis pertusis discum cinereum perforantibus; sporulis 1-septatis, fuligineis. 1947

Hab. in ramis corticatis Ulmi campestris in Italia boreali et Gallia.

124. **Diplodia sycina** Mont. in Castag. Supplem., p. 64 et in Syll. Crypt. n. 947. — Peritheciis globosis subcompressis atris opacis, seriatim e rimis ligni decorticati erumpentibus; sporulis magnis oblongis fuscis, brevissime pedicellatis. 1948

Hab. in ramulis decorticatis Fici Caricæ in Gallia, Italia, Germania. — Var. **syconophila** Sacc.: peritheciis dense gregariis, subcutaneis, globoso-papillatis atris; sporulis constricto-1-septatis, stipitatis, 20-25 ≃ 8-11, fuligineis. In ramulis corticatis Fici, qui atro-fœdantur, in Italia et Gallia. — Var. **carpophila** Thüm.: peritheciis solitariis; sporulis castaneo-fuscis, brevissime deciduo-stipitatis. In Italia boreali pr. Plezzo in fructibus siccis adhuc pendulis Fici Caricæ.

125. **Diplodia macrostoma** Lév. Ann. Sc. nat. 1846, p. 291. — Peritheciis gregariis confertis, erumpentibus, nigris, ostiolis conicis demum deciduis et tunc peritheciis late hiantibus; sporulis generis. 1949

Hab. in ramis corticatis Fici Caricæ et Gleditschiæ Triacanthi pr. Paris in Gallia et pr. Gorizia in Italia bor.

126. **Diplodia Macluræ** Speg. in Mich. I. p. 484. — Peritheciis nunc sparsis, nunc in acervulos aggregatis, primo epidermide tectis, dein erumpentibus atque ab ea cinctis; sporulis ovoideis, 23-25 ≃ 8-11, in sterigmatibus parvulis, 10 ≃ 3, acrogenis, primo continuis, guttulatis, luteolis, dein medio 1-septatis non vel vix constrictis, obscure fuligineis. 1950

Hab. in ramulis emortuis Macluræ aurantiacæ, Susegana in Italia boreali.

127. **Diplodia radicina** C. et Ell. in Gravillea. — Erumpens, gregaria; peritheciis atris, elevatis, subglobosis: sporulis ellipticis, nec constrictis, brunneis, 30 ≃ 10-12. 1951

Hab. in radicibus Macluræ, New Jersey Amer. bor.

128. **Diplodia Papayæ** Thüm. in Rev. Myc. 1879, p. 9. — Peritheciis numerosis, dense gregariis, hemisphæricis vel pulveri pyrio similibus, atris, nitidis; sporulis oblongo-ellipticis, utrinque angustatis et rotundato-acutatis, medio septatis, sed non constrictis, obscure fuscis, impellucidis, 25 ≃ 10. 1952

Hab. in ramis emortuis Caricæ Papayæ, Malabar (Doct. Keck).

129. **Diplodia Molleriana** Thüm. Contr. Myc. Lus. n. 558. — Peritheciis sparsis aut solitariis aut longitudinaliter seriatim dispositis, prominulo-erumpentibus, primo sub epidermide nidulantibus, demum liberis, aterrimis, mediis; sporulis numerosis, ellipsoideis, utrinque angustato-rotundatis, medio non constrictis, obscure fuscis, impellucidis, enucleatis, 24 ≃ 10. 1953

Hab. in ramulis aridis Ficus radicantis in horto botanico Coimbra in Lusitania.

130. **Diplodia subtilis** Bon. Abhandl. II. p. 145. — Gregaria, punctiformis; peritheciis globosis seu ovoideis, basi applanatis, nigris, clivosis, astomis, primum cortice tectis, dein denudatis; sporulis ovoideis oblongisve, 1-septatis, læte brunneis; basidiis simplicibus, angustis. 1954

Hab. in ramis Mori et Laburni in Guestphalia.

131. **Diplodia incrustans** Sacc. Fungi Ven. Ser. IV. n. 29, Myc. Ven. Spec. p. 119, t. XII. fig. 16. — Peritheciis conoideis, subcutaneo-erumpentibus, atris, basi hyphis ramulosis, parce septatis, obsitis; sporulis obovatis, constricto-1-septatis, 15 ≃ 10, articulo infero subacuminato, fuligineis. 1955

Hab. in ramis corticatis Broussonetiæ, Rhois typhinæ, Padova, Treviso in Italia boreali. — Pycnidium *Thyridariæ incrustantis.*

132. **Diplodia Mori** West. Bull. Soc. bot. Belg. II. p. 244. *Sphæria Mori* Chaill. in Fr. S. Myc. II. p. 494 (nomen). — Peritheciis gregariis, subcutaneo-prominulis, globoso-papillatis, nigris; sporulis ellipsoideo-oblongis, 1-septatis, leniter constrictis, 25 ≃ 9-10, fuligineis. 1956

Hab. in ramis corticatis Mori albæ et nigræ in Italia, Gallia, Belgio, Austria, Germania, Algeria, Amer. bor. — Forma peritheciis subaggregatis; sporulis, 25 ≃ 10-11, similibus, occurrit in ramis crassioribus Mori in Gallia. — *Diplodia Mori* Berk. Dec. of fungi n. 137: sporulis semper pallidis simplicibus, obovato-oblongis; peritheciis globosis dispersis siccitate collapsis solitariis v. subaggregatis, in ramis Mori multicaulis Cincinnati, Ohio, videtur *Phomæ* v. *Dothiorellæ* species.

133. **Diplodia moricola** C. et Ell. in Grevillea. — Semiimmersa, peritheciis atris, globosis, papillatis; sporulis ellipticis, brunneis, endochromate bipartito, 18-22 ≃ 10. 1957

Hab. in ramis decorticatis Mori, New Jersey Amer. bor.

134. **Diplodia atramentaria** C. et Ell. in Grevillea. — Peritheciis paucis, congestis, erumpentibus, atro-brunneis, obtusis, apice magno perforatis; sporulis anguste ellipticis, brunneis, profusis, profluentibus et inquinantibus, 15 ≃ 6. 1958

Hab. in ramis Mori, New Jersey in America boreali. — De septo non loquitur, an ergo *Sphæropsidis* species?

135. **Diplodia fulvella** Cooke in Grevillea. — Sparsa; peritheciis immersis, tectis, ostiolis abbreviatis, erumpentibus; sporulis ellipticis, brunneis, uniseptatis, nec constrictis, 30 ≃ 14. 1959

Hab. in cortice Platani, Aiken in Carolina austr. Am. bor.

136. **Diplodia myxosporioides** Sacc. Mich. II. p. 349. — Peritheciis gregariis, diu peridermio velatis, denique suberumpentibus, globulosis depressis, 1/3 mill. diam., vix papillatis; sporulis oblongis, utrinque rotundatis, constricto-1-septatis, 22 ≃ 15, granulosis, olivaceo-fuligineis, initio basidiis crassiusculis subæquilongis, hyalinis suffultis. 1960

Hab. in cortice Platani, Lyon in Gallia (Therry). — Habitus *Myxosporii* sed perithecium adest sporæque biloculares.

137. **Diplodia ditior** Sacc. et Roum. in Michelia II. p. 623. *Diplodia Platani* Sacc. F. Gall. n. 2254. — Peritheciis late gregariis, subcutaneo-erumpentibus, globulosis, papillatis; sporulis oblongo-didymis, 25-30 ≃ 10-12, leniter constrictis, fuligineis, hyalino-stipitatis. 1961

Hab. in ramis corticatis Platani orientalis in Arduennis (Libert) Troyes in Gallia (Briard) et in Italia boreali. *D. pauperula* B. et Br. sporulis minutis differt.

138. **Diplodia Juglandis** Fr. Summa Veg. Sc. p. 417, *Sphæria Juglandis* Fr. S. M. II. pag. 493. — Gregaria; peritheciis globosis, primo depressis immersis, dein erumpentibus levibus atris, ostiolo simplici pertusis, intus griseis; sporulis ovoideo-oblongis, didymis, medio constrictis, fuligineis, 24 ≃ 10-12. 1962

Hab. in ramis corticatis Juglandis regiæ in Suecia, Germania, Helvetia, Italia, Gallia. — Cortici interiori primo innata, dein epidermide lacerata erumpens, opaca, parte superiore denudata prominula levi; intus primo farcta, dein evacuata, sed non collabens. — Ab hac forte non differt *Sph. eructans* Wallr. — Sec. Fuck. pycnidium sistit *Cucurbitari Juglandis*. — Var. **veronensis** (Mass.) Sacc. *Sph. veronensis* Mass. in Flora 1855, pag. 241, fig. 12: sporulis angustioribus, 18-24 ≃ 6-6,3, sæpe 2-4-nucleatis. In truncis juglandinis in agro veronensi.

139. **Diplodia eructans** (Wallr.) Sacc. *Sphæria eructans* Wallr. Fl. crypt. n. 3771. — Peritheciis minutis sparsis, subcutaneis nigris globosis, nucleo atro-violaceo glutinoso farctis, vertice umbonato, elevato-emerso; sporulis ovato-oblongis obtusis opacis uniseptatis, profusis, inquinantibus. 1963

Hab. ad ramos juglandinos gelu tactos passim in Germania.

140. **Diplodia populina** Fuck. Symb. myc. p. 170. — Peritheciis gregariis, tectis, demum per epidermidem fissam erumpentibus, majusculis, applanatis, papillatis; sporulis oblongis ovatisve, magnitudine varia, 1-septatis, 23-25 ≃ 12-13. 1964

Hab. in ramis Populi nigræ, Tremulæ et italicæ in Germania, Lusitania et Italia. — Sec. Thüm. Contr. Myc. Lus. n. 560 a *Diplodia mutila* differt sporulis non constrictis. Pycnidium *Otthiæ populinæ*.

141. **Diplodia mutila** Fr. et Mont. Ann. Sc. nat. I. p. 302. *Sphæria mutila* S. Myc. II. p. 424. — Atra; peritheciis sociatis v. confluentibus globosis, superiore parte prominente inæquali rugosa, ostiolo simplici; sporulis stipitatis, ellipsoideo-didymis, utrinque rotundatis, 20-24 ≃ 7-9, fuligineis. 1965

Hab. in ramis corticatis Populi in Suecia, Gallia, Germania, Italia, Belgio. — Perithecia in series flexuosas erumpunt, confluunt, intus albido-farcta, demum evacuata, atra: stroma vix genuinum, sed cortex nigrescit.

142. **Diplodia Carpini** Sacc. Mich. II. p. 266. — Peritheciis dense gregariis epidermide velatis, vel hinc inde aggregatis erumpentibusque, globosis, atris, obtuse papillatis, (interdum, epidermide secedente, dimidiatis); sporulis oblongo-ovoideis, leniter constrictis, 1-septatis, 20 ≃ 9-11, fuligineis. 1966

Hab. in ramis Carpini Betuli, Padova, Selva Ital. bor., sociâ *Cucurbitariâ Carpini* Sacc., cujus est pycnidium.

143. **Diplodia Coryli** Fuck. Symb. p. 393. — Peritheciis sparsis, magnis, globosis, erumpentibus, atris, ostiolis globoso-papilliformibus, minutissime perforatis; sporulis expulsis epidermidem atro-inquinantibus, oblongis, inæqualibus. 1967

Hab. in ramis emortuis Coryli Avellanæ in Germania, Italia, Gallia. — Pycnidium *Otthiæ Coryli*.

144. **Diplodia Castaneæ** Sacc. Mich. I. p. 225. — Peritheciis gregariis, dein liberatis, lignicolis, superficialibus, globulosis, papillulatis, atris; sporulis oblongis, constricto-1-septatis, 18-20 ≃ 9-10, fuligineis. 1968

Hab. in ramis decorticatis Castaneæ vescæ, Padova Ital. bor. (Bizzozero). — Var. β. **corticola**: peritheciis subtectis, corticolis; ceterum non diversa. In ramis ejusdem corticatis Conegliano (Spegazzini) et in Gallia (Libert). — Var. γ. **radicicola** Sacc. Mich. II. p. 537: peritheciis sparsis, cortice suberoso dein elabente tectis, contextu indistincte parenchymatico subcarbonaceo, globoso-depressis; sporulis ellipsoideo-oblongis, utrinque rotundatis, 19–21 ≃ 9–10, initio granulosis, hyalinis, dein fuligineis, tandem sed rarius 1-septatis leviterque constrictis, basidiis cylindraceis hyalinis sporulam æquantibus initio suffultis. In radicibus tenuioribus languentibus v. emortuis Castaneæ vescæ in Apennino super. et in prælpinis circa Bugellam (prof. Gibelli). — Peritheciis depressioribus ostioloque obsoleto a typo nonnihil recedit.

145. **Diplodia faginea** Fr. Summa Veg. Scand. p. 417. — Peritheciis 1969
gregariis, globosis, nigris, subcutaneis, ostiolo papillato erumpente; sporulis ellipsoideis, 24 ≃ 12, leniter constrictis, fuligineis.

Hab. in ramis corticatis Fagi silvaticæ in Italia, Gallia, Suecia, Germania. — Pycnidium videtur *Massariæ macrosporæ*.

146. **Diplodia suberina** Dur. et Mont. Fl. Alg. I. p. 572. Syll. Crypt. 1970
n. 948. — Erumpens, convexula, tuberculosa, atra; peritheciis ovoideis aut sphæricis prominulis papillulatis albo-farctis; sporulis oblongis, junioribus hyalinis continuis (maturis haud observatis), stipitatis, undique centrum versus vergentibus, 25 ≃ 12–13.

Hab. ad ramulos Quercus Suberis, Algeria (Durieu), Coimbra in Lusitania. (Mesnier).

147. **Diplodia Quercus** Fuck. Symb. myc. p. 170. — Peritheciis cæ- 1971
spitoso-confluentibus, primo tectis, dein liberis, maximis, hemisphæricis, punctulato-scabris, atris; ostiolis minutis papilliformibus; sporulis oblongis, guttulatis, 30 ≃ 10.

Hab. in ramis siccis Quercus in Germania et Gallia. — Pycnidium *Otthiæ Quercus*.

148. **Diplodia quercina** West. Bull. Ac. Belg. II. Ser. t. XII. n. 7. — 1972
Peritheciis sparsis, nigris, immersis, exiguis, epidermide atratula et varie fissa tectis; ostiolo papillato, erumpente; sporulis brunneis, ovoideis, bilocularibus.

Hab. in ramis Quercus, Gentinnes pr. Namur in Belgio (De Limminghe).

149. **Diplodia longispora** C. et Ell. in Grevillea F. New Jers. n. 2304, 1973
fig. 7. — Subgregaria, semiimmersa, atra; peritheciis minutis; sporulis elongatis, uniseptatis, brunneis, 30–35 ≃ 7.

Hab. in ramis decorticatis Quercus coccineæ, New Jersey Americæ borealis.

150. **Diplodia cincta** Fuck. Symb. myc. p. 395. — Peritheciis sparsis, tectis, per epidermidem pustulato-inflatam fissamque demum erumpentibus, basi applanatis, annulo nigro hirsutoque cinctis, vertice hemisphæricis, papillatis, atris; sporulis oblongis, didymis, fuscis. 1974

Hab. in ramulis siccis Quercus in Rhenogovia, rarius.

151. **Diplodia consimilis** Dur. et Mont. Fl. Alg. p. 574. Syll. Crypt. n. 951. — Innata; peritheciis globosis opacis sparsis confluentibusque, stromate atro-fusco junctis, epidermide stellatim rupta cinctis, ostiolo vix prominulo instructis; sporulis oblongis, pellucidis bilocularibus. 1975

Hab. in cortice Quercus cocciferæ apud La Calle in Algeria (Durieu).

152. **Diplodia Betulæ** West. in Kickx. Fl. crypt. Fl. I. p. 394. — Peritheciis nigris, solitariis v. aggregatis, initio immersis, denique fere liberis; sporulis ovoideis, bilocularibus, brunneis. 1976

Hab. in trunco Betulæ nigræ in Belgio.

153. **Diplodia scabra** Fuck. Symb. myc. p. 395. — Peritheciis sparsis, tectis, media magnitudine, globosis, atris; ostiolis papillatis, perforatis, erumpentibus; sporulis oblongis, didymis, medio constrictis, atro-fuscis, 18 ≃ 8. 1977

Hab. in ramis siccis Alni glutinosæ in Rhenogovia. — In ramulis superioribus occurrunt spermogonia (*Phoma*): sporulis oblongis, hyalinis, 10 ≃ 2.

154. **Diplodia Alni** Fuck. Symb. myc. p. 395. — Peritheciis tectis, sparsis confluentibusque, media magnitudine, globosis, atris; ostiolis papillatis, erumpentibus; sporulis oblongis, fuscis, didymis, 26 ≃ 9. 1978

Hab. in ramis et truncis siccis Alni glutinosæ in Germania et Italia.

155. **Diplodia Juniperi** West. Bull. Ac. Belg. II. Ser. t. 12, n. 7. — Peritheciis solitariis, perexiguis, immersis, sparsis, epidermide tectis, ostiolo papillato brunneo perforante; sporulis ovoideo-oblongis, 18–20 ≃ 8–10, 1-septatis, non constrictis, fuscis. 1979

Hab. in ramis Juniperi communis in Belgio, Galliæ et Italia boreali. — β. **foliicola** Sacc. F. Gall. n. 2253: sporulis didymis fuscis, 24-26 ≃ 10-11. In Gallia. — ***Dipl. Deodaræ** Thüm. F. Litor. n. 145: sporulis multo minoribus, 11 ≃ 7, subovatis, loculo

inferiore latiore. In ramis tenuioribus Cedri Deodaræ, Gorizia. «Si reapse sporulæ tam parvæ species distinguenda!»

156. **Diplodia thujana** Peck et C. Rep. on the St. Mus. N. Y. — Peritheciis subhemisphæricis v. ellipsoideis rugulosis v. substriatis, nigris; sporulis oblongo-ellipsoideis leniter constrictis, 18–23 μ. longis, fuligineis. 1980

Hab. in cortice et ligno Thujæ occidentalis, Buffalo Amer. bor. (Clinton). — Formæ corticolæ sunt perithecia erumpentia epidermideque arcte cincta; formæ lignicolæ perithecia sunt sublibera et sæpe ellipsoidea. An hæc postrema potius *Diplodiellæ* species? — β. **Thujæ orientalis** (*D. Thujæ* Sacc. in Mich. nec West.): peritheciis gregariis v. subaggregatis, subcutaneo-erumpentibus; sporulis ovato-oblongis 20–25 ≃ 10, fuligineis. In Italia bor.

157. **Diplodia virginiana** Cooke et Rav. Fung. Amer. n. 151. — Sparsa, tecta; peritheciis minimis, supra perforatis; sporulis ellipticis, uniseptatis, nec constrictis, brunneis, 20–25 ≃ 10. 1981

Hab. in ramis Juniperi virginianæ, Aiken in Carolina inferiore Americæ borealis.

158. **Diplodia thyoidea** C. et Ellis in Grev. V. p. 32. — Peritheciis erumpentibus, subgregariis, globosis, papillatis, atris, nitidis; sporulis medio constrictis, cellulis globosis, brunneis, 25–28 ≃ 12–13. 1982

Hab. in ramis Cupressi thyoidis, New Jersey in America boreali.

159. **Diplodia cyparissa** C. et Harkn. Grev. 1881, p. 83. — Sparsa, tecta, epidermide elevata; peritheciis subglobosis, demum depressis; sporulis ellipticis, hyalinis, continuis, demum uniseptatis, brunneis, medio vix constrictis, 20–22 ≃ 9. 1983

Hab. in ramis Cupressi macrocarpæ in California.

160. **Diplodia sapinea** (Fr.) Fuck. Symb. myc. p. 393. *Sphæria sapinea* Fr. S. M. II. p. 491. — Gregaria, erumpens; peritheciis globosis, levibus, fusco-atris, ostiolo papillæformi prominulo; sporulis ellipsoideo-oblongis, subinde inæquilateralibus, fuligineis, 24–26 ≃ 12. 1984

Hab. in ramis corticatis Pini silvestris, Abietis, Araucariæ in Suecia, Germania, Gallia, Italia. — Perithecia ad dimidium denudata, globosa vel leviter depressa, majuscula, primo fuscescentia, dein opaca nigra intus primo albo-farcta, dein evacuata: papilla distincta, prominens, demum decidua. — Var. β. **lignicola**. In ligno pineo aqua diu submerso in Gallia australi.

161. **Diplodia Phoradendri** Cooke Grev. XII. p. 23. — Sparsa, pro- 1985

nula; peritheciis globosis, atris, demum superne nudis; sporulis magnis, ellipticis, uniseptatis, fuscis, ad medium constrictis, 32 ≃ 20.

Hab. in Phoradendro, Seabord Sud Carolina in Amer. bor.

162. **Diplodia microsporella** Sacc. Mich. I. p. 96 et 517, F. it. n. 99 (sub nom. *D. microsporæ*, sed non B. et C.). — Peritheciis laxe gregariis, epidermide tumidula velatis, dein semierumpentibus, globulosis, depresso-papillatis; nucleo farcto atro; sporulis oblongis, 10–15 ≃ 4–5, rectis v. rarius inæquilateralibus, 1-septatis, vix constrictis, e strato proligero cellulari hyalino orientibus, fuligineo-ochraceis. 1986

Hab. in ramulis corticatis putrescentibus Coryli Avellanæ, Quercus, Cerasi, Carpini, Aceris campestris, Pruni domesticæ, Fraxini (sp. 8–10 ≃ 4, non constrictis), Acaciæ, Eucalypti, Myrtilli, Berberidis in Italia, Gallia, Algeria. — Var. β. **Araucariæ** Penz. et Sacc. F. Mort. t. V. f. 17. Peritheciis minutis, innatis, demum prorumpentibus, nigerrimis, carbonaceis, 80–100 μ. diam.; sporulis minutis, 9–10 ≃ 4–5 crassis, atro-brunneis, ad septum sæpius constrictis. In foliis delapsis Araucariæ Bidwillii, Mortola Ital. bor. — Var. γ. **Meliæ** Sacc. et Roum. Rel. Lib. IV. n. 140. Peritheciis subcutaneo-erumpentibus, gregariis, subinde aggregatis, globosis, vix papillatis, atris; sporulis oblongis, utrinque rotundatis, 1-septatis, vix constrictis, 10–12 ≃ 5–6, rufo-fuligineis; basidiis non visis. — In ramis corticatis Meliæ Azedarach in Arduennis.

163. **Diplodia consociata** B. et C. Cub. Fungi n. 556. — Peritheciis ovatis, collo brevi, basin versus floccis brevibus vestitis; sporulis minutis, oblongis, 12–13 μ. longis. 1987

Hab. in cortice ramorum in arvis insulæ Cuba.

164. **Diplodia subglobata** (Pr.) Sacc. *Sporocadus subglobata* Preuss F. Hoyersw. n. 337. — Peritheciis ovatis corneis, tum papillatis, cortici primo insertis (cujus epidermis tollitur); pulpa fusca; basidiis filiformibus; sporulis oblongis, inæqualibus, subbilocularibus, fuscis; episporio intense fusco; nucleo dilute-fusco cum guttulis oleosis. 1988

Hab. in cortice arborum frondosarum, Hoyerswerda.

165. **Diplodia globulosa** Pass. Fungi Abiss. n. 38. — Peritheciis subgloboso-depressis, atris, cavis, corticolis, erumpentibus; sporulis oblongo-ellipsoideis vel varie irregularibus, intense fuscis, continuis v. obscure 1-septatis, medio non v. vix constrictis. 1989

Hab. in cortice vetusto, Keren in Abyssinia (Beccari).

II. *In foliis et fructibus Dicotyledonearum lignosarum.*

(Cfr. n. 8. 9. 35. 86. 118. 125. 155. 162).

166. **Diplodia phyllodiorum** Penz. et Sacc. Fung. Mortol. n. 37, tav. V. fig. 20. — Peritheciis gregariis, minutis, hypodermicis, demum erumpentibus, 110–150 μ. diam., nigris, globulosis, apice haud depressis, maculis albis phyllodiorum insidentibus; sporulis didymis, ellipticis v. ovalibus, subinæqualibus, medio paullum constrictis, atro-brunneis, 6–10 ≃ 4–5; basidiis obsoletis. 1990

Hab. in phyllodiis emortuis Acaciæ sp., Mortola in Ital. bor.

167. **Diplodia phyllodii** Cooke et Hark. in Grev. 1881. p. 83. — Sparsa; peritheciis subglobosis, atris, prominulis, superne nudis; sporulis elongato-ellipticis, uniseptatis, brunneis, medio non constrictis, 22–25 ≃ 9. 1991

Hab. in phyllodiis Acaciæ in California.

168. **Diplodia Leguminis-Cytisi** Lév. Ann. Sc. nat. V. p. 293 (1846), Kickx Fl. I. p. 393. — Peritheciis globulosis, depressis, nigricantibus, exiguis, tectis, dense sparsis; nucleo albido; ostiolo papillato, epidermidem perforante; sporulis obtusis, brevibus, 1-septatis, brunneis. 1992

Hab. in leguminibus pedunculisque Cytisi Laburni in Gallia et Belgio.

169. **Diplodia acicola** Sacc. Mich. II. p. 268 (Mart. 1881), Cesati Hedw. 1881 Oct. p. 145. — Peritheciis gregariis, innato-erumpentibus, globosis, ostiolo-conoideo, aterrimis; sporulis stipitellatis, ellipsoideis, 22–30 ≃ 10–12, diu continuis hyalinis denique fuligineis, 1-septatis. 1993

Hab. in foliis Pini silvestris in horto patavino Ital. bor., et Pinorum exoticarum in horto neapolitano Ital. merid. — *Diplodia conigena* Desm. differt sporulis multo majoribus, nempe, 28–32 ≃ 12–14; *Diplodia sapinea* Fr. peritheciis sæpius cæspitoso-erumpentibus; sporulis 24–26 ≃ 12, leniter constrictis; *Diplodia pinea* (Desm.) Kickx sporulis multo majoribus, nempe 37 ≃ 17. — Var. β. **Araucariæ** Penz. F. Mort. n. 32: peritheciis gregariis, epidermide tectis, globosis; sporulis 24–25 ≃ 13–14, diu continuis, demum uniseptatis, atro-fuscis; basidiis crassiusculis, hyalinis, 18–20 ≃ 8–10, in foliis delapsis Araucariæ Bidwillii, Mortola in Ital. bor.

170. **Diplodia cupressina** Cooke in Grev. — Sparsa; peritheciis atris, globosis, subsuperficialibus, minute papillatis; sporulis ellipticis, brunneis, uniseptatis, constrictis, 10 ≃ 5. 1994

Hab. in foliis Juniperi, Darien, Georgia in Amer. bor.

171. **Diplodia pinea** (Desm.) Kickx Fl. cr. Flandr. I. p. 397. *Sphæria pinea* Desm. Ann. Sc. nat. 1842, p. 14. — Peritheciis globoso-papillulatis, erumpentibus, in seriem sinuosam dispositis; ostiolo demum deciduo; sporulis oblongis, 35–40 ≃ 16–18, stipitellatis, initio continuis, luteolis, dein 1-septatis, vix constrictis, fuligineis. 1995

Hab. in acubus emortuis Pini montanæ et Pini silvestris in Gallia, Belgio et Italia. — Sec. Desm. et Karst. exstat quoque forma in cortice Pini silvestris et Abietis in Gallia et Fennia.

172. **Diplodia Taxi** (Sow.) De Not. Micr. it. Dec. IV. fig. 9. *Sphæria Taxi* Sow. fig. 394. Fr. S. M. II. p. 500. — Gregaria, epidermide cinerescente tecta; peritheciis subimmersis convexis nigricantibus, demum epidermidem poro perforantibus; sporulis ellipsoideo-oblongis, utrinque rotundatis, stipitatis, 1-septatis non v. parum constrictis, 20–22 ≃ 10, fuligineis. 1996

Hab. in foliorum pagina inf. et sup. Taxi baccatæ in Suecia, Britannia, Gallia, Belgio, Italia, Germania.

173. **Diplodia Thujæ** West. in Bull. Ac. Belg. II. Ser., t. XII. n. 7. — Peritheciis amphigenis, perexiguis, sparsis, epidermide atratula tectis; sporulis..... 1997

Hab. in foliis Thujæ orientalis, Namur in Belgio (Barbier).

174. **Diplodia conigena** Desm. XIII. Not. p. 69. — Peritheciis immersis, dein erumpentibus, subrotundis, gregariis, confluentibus, atris, subastomis; nucleo nigro; sporulis oblongis, utrinque obtusis, fuligineis, denique 1-septatis, 26–30 ≃ 12–15. 1998

Hab. in squamis strobilorum Pini silvestris et Abietum in Gallia, Belgio, Italia, Germania.

175. **Diplodia megalospora** B. et C. North Am. Fungi n. 420. — Peritheciis sparsis, erumpentibus, obtusis; sporulis majoribus, oblongo-ellipticis, 37 ≃ 12. 1999

Hab. in conis Pini Tædæ in Carolina inf. Amer. bor.

176. **Diplodia petiolorum** Sacc. Mich. II. p. 267. — Peritheciis minutis globoso-lenticularibus, epidermide tectis v. erumpentibus, obtuse papillatis, atris; sporulis ovato-oblongis, 20–25 ≃ 12–15, diu continuis, tandem 1-septatis, vix constrictis, fuligineis. 2000

Hab. in petiolis foliorum Aceris Pseudoplatani, Selva in Italia boreali.

177. **Diplodia Tini** Sacc. Mich. II. p. 269. — Peritheciis subepidermicis, tandem erumpentibus, globoso-conoideis, pusillis, aterrimis; 2001

sporulis ovato-oblongis, 22–12, 1-septatis, non constrictis, fuligineis.

Hab. in foliis Viburni Tini, Selva in Italia boreali rarius. — Var. β. **ramulicola** Sacc. In Arduennis in ramis Viburni Tini (Libert).

178. **Diplodia Ilicis** Fr. Summa Veg. Sc. p. 417. *Sphæria Ilicis* Fr. S. M. II. p. 501. *Diplodia aquifolia* West. — Gregaria, nigra; peritheciis globosis prominulis tectis, demum erumpentibus; sporulis elliptico- oblongis v. subturbinatis, stipitellatis, 20-24 ≃ 12-14, 1-septatis, vix constrictis, fuligineis. 2002

Hab. in utraque pag. foliorum emortuorum Ilicis Aquifolii in Suecia, Gallia, Germania, Britannia, Italia, Belgio. — Perithecia epidermide, dein centro albido-pertusa velata, nitidula. — *Diplodia aquifolia* præbet sporulas simillimas sed continuas (ob immaturitatem?).

179. **Diplodia Evonymi** West. Exs. n. 930, Kickx Fl. cr. Fl. I. pag. 395 (nec Fuck. quæ *D. ramulicola*). — Peritheciis sparsis, globuloso-papillatis, minutis, epidermide tectis, dein prominulis erumpentibusque; nucleo diu albido; sporulis ovoideo-oblongis, obtusis, tandem 1-septatis, 30 ≃ 10-12, fuligineis. 2003

Hab. in foliis putrescentibus Evonymi japonici in Belgio, Gallia, Italia boreali.

180. **Diplodia hedericola** Sacc. *Sphæria Hederæ* West. F. Belg. exs. n. 173, nec Fr. — Peritheciis dense gregariis, sæpius epiphyllis, globoso-depressis, vix papillatis, atris epidermide velatis; sporulis obovatis, apice rotundatis, 10-12 ≃ 5-6, 1-septatis, non constrictis, fuligineis, 2-guttatis, basidiis bacillaribus, hyalinis, 5-6 ≃ 2. 2004

Hab. in foliis emortuis Hederæ in Belgio.

181. **Diplodia Oleandri** Speg. Mich. I. p. 486. — Peritheciis laxe gregariis, circinatim dispositis (an semper?), globosis, tectis, prominulis, ostiolo papillato exserto donatis, 200-300 μ. diam.; sporulis ellipticis vel ovoideis, fuligineo-olivaceis, subopacis, 25-30 ≃ 10-14, continuis (dein 1-septatis), basidiis hyalinis, 8-10 ≃ 5-6, suffultis. 2005

Hab. ad folia dejecta Nerii Oleandri, Conegliano in Italia boreali.

182. **Diplodia Buxi** Fr. Summa Veg. Sc. p. 417. — Peritheciis sæpius hypophyllis, dense gregariis, globoso-depressis, vix papillatis, per epidermidem centro dein laciniatim fissam translucentibus; sporulis oblongo-ellipsoideis, 1-septatis, non vel vix constrictis, 20-24 ≃ 10-12, fuligineis. 2006

Hab. in foliis emortuis Buxi sempervirentis in Suecia, Gallia, Italia.

183. **Diplodia Aucubæ** West. Bull. Ac. Belg. II. Ser. t. XII. n. 7. — 2007
Peritheciis epiphyllis, sparsis, globuloso-papillatis, epidermide atrata tectis; sporulis ovoideis, brunneis, bilocularibus.

Hab. in foliis Aucubæ japonicæ pr. Mons in Belgio (P. Dumont).

184. **Diplodia Mygindæ** Winter Contr. Myc. Lus. n. 815. — Peri- 2008
theciis sparsis, epiphyllis, sine macula, immersis, globosis, ostiolo punctiformi epidermidem pustulatim elevatam perforantibus, atris, 240 μ. circa latis; sporulis elliptico-oblongis, initio hyalinis et continuis, demum uniseptatis, medio non vel vix constrictis, fuscis, 24–25 ≃ 12–13.

Hab. ad folia arida Mygindæ pallentis in horto botanico Coimbra in Lusitania.

185. **Diplodia salicella** Sacc. Mich. II. p. 270. — Peritheciis sparsis, 2009
epidermide velatis, prominulis erumpentibusve, globulosis, subpapillatis, aterrimis; sporulis oblongis, 22–25 ≃ 12, quandoque curvulis, 1-septatis, non vel vix constrictis, aterrimis.

Hab. in foliis putrescentibus Salicis vitellinæ, Selva in Italia boreali. — A *Dipl. salicina* Lév. sporulis majoribus aterrimis præcipue differt.

186. **Diplodia glandicola** C. et Ell. in Grevillea. — Sparsa; perithe- 2010
ciis minimis, atris, vix prominulis; sporulis ellipticis, uniseptatis, brunneis, 25–28 ≃ 12, non constrictis.

Hab. in fructibus Coryli Avellanæ, New Jersey in Am. bor.

187. **Diplodia dryadea** Sacc. Mich. II. p. 267. — Peritheciis minutis 2011
erumpenti-superficialibus e globoso conicis, acutiusculis, atris; sporulis oblongis, 22 ≃ 12, diu continuis, fuligineis, basidiis duplo longioribus quandoque ramulosis suffultis.

Hab. in pagina inferiore foliorum putrescentium Quercus pedunculatæ in silva Montello Ital. bor.

188. **Diplodia Embryopteridis** Cooke in Grevillea. — Gregaria; pe- 2012
ritheciis atris, erumpentibus, poro pertusis; sporulis ellipticis, uniseptatis, brunneis (non constrictis) 25–28 ≃ 11.

Hab. in fructibus Embryopteridis glutiniferæ, Midnapore.

189. **Diplodia Mahoniæ** Sacc. M. V. n. 1402 et Mich. I. p. 457. — Pe- 2013
ritheciis plerumque epiphyllis, globoso-depressis, $^1/_4$ mill. diam.; gregariis, innato-erumpentibus, nigris; sporulis, hyalino-stipitatis,

ellipsoideo-oblongis, 22 ≃ 12-14, diu continuis, dein 1-septatis vix constrictis, fuligineis.

Hab. in foliis languidis Mahoniæ Aquifolii in horto patavino Ital. borealis.

190. **Diplodia heteroclita** Dur. et Mont. Fl. Alg. p. 576 et Syll. n. 955. — Hypophylla; peritheciis innato-prominulis, globosis, tectis, apice rimose dehiscentibus, tandem elabentibus, maculis cinereo-rufescentibus insidentibus, 100-150 μ. d; sporulis oblongis initio continuis tandem bilocularibus fuscis. 2014

Hab. in foliis Citri Aurantii in monte Bouzaréah in Algeria (Durieu).

191. **Diplodia Photiniæ** Speg. Mich. I. p. 485 et II. p. 269. — Peritheciis hemisphæricis, subepidermicis, carbonaceis, minutis, 130 μ. diam., papillatis: sporulis ochraceo-fuligineis diu continuis, dein 1-septatis, crassiuscule et obscurius tunicatis, quandoque 1-2-guttulatis, 22 ≃ 12-14, ad septum sæpius non constrictis. 2015

Hab. in foliis dejectis, putrescentibus Photiniæ serrulatæ, Conegliano, Selva in Italia boreali.

192. **Diplodia rhodocarpa** Cooke Grev. XII. p. 23 (*D. rosæcarpa*). Sparsa; peritheciis demum erumpentibus, subglobosis, atris, obtusis; sporulis ellipticis, uniseptatis, fuscis, ad medium constrictis, 20 ≃ 10. 2016

Hab. in fructibus Rosæ in Carolina infer. Americæ borealis.

193. **Diplodia Eriobotryæ** Sacc. Mich. II. p. 267. — Peritheciis erumpentibus, globosis, majusculis, conico-papillatis, aterrimis; sporulis oblongis, 20 ≃ 8, constricto-1-septatis, fuligineis. 2017

Hab. in nervis foliorum Eriobotryæ japonicæ, Conegliano in Italia boreali.

194. **Diplodia Lauro-Cerasi** West. Bull. Ac. Belg. t. XII. n. 7. — Peritheciis epiphyllis, exiguis, sparsis, nigris, innatis demum subliberis, ostiolo papillato; sporulis ovoideis, bilocularibus. 2018

Hab. in foliis Pruni Lauro-Cerasi, Mons in Belgio (P. Dumont). — « An eadem ac *D. tecta?* ».

195. **Diplodia consors** B. et Br. Ann. N. H, n. 412. — Peritheciis gregariis, tectis, epidermide nitida, dein nigrescente et ad ostiolum perforans dealbata; sporulis minutis, ellipsoideo-oblongis, 1-septatis, fuligineis. 2019

Hab. in foliis Pruni Lauro-Cerasi in Britannia. — A *Diplodia tecta* sporulis tertia parte brevioribus, nempe 12-15 μ. tantum longis differt.

196. **Diplodia tecta** B. et Br. Ann. N. H. n. 411. — Peritheciis tectis, gregariis, epidermidem bullatim inflantibus et leniter nigrificantibus; sporulis oblongis, diu continuis, majusculis, 20-22 ≃ 12-14, dein 1-septatis leniterque constrictis. 2020

Hab. in foliis emortuis Pruni Lauro-Cerasi et Pr. lusitanicæ in Britannia, Gallia et Italia.

197. **Diplodia Malorum** Fuck. Symb. myc. p. 395. — Peritheciis gregariis, sæpe confluentibus tectis, demum liberis, majusculis, globosis, atris, papillatis; sporulis dein ellipsoideis 1-septatis vix constrictis, 22-25 ≃ 12. 2021

Hab. in fructibus putrescentibus Piri et Mali in Germania, Italia.

198. **Diplodia Ravenelii** Cooke in Grevillea. — Hypophylla, gregaria vel sparsa; peritheciis atris, convexis, semiimmersis; sporulis elongato-ellipticis, brunneis 20 ≃ 8. 2022

Hab. in foliis Magnoliæ, Aiken in Carolina austr.

199. **Diplodia punctipetiola** Cooke in Grevillea. — Tecta; peritheciis globosis, prominulis, atris, sparsis; ostiolis papillatis; sporulis ellipticis, nec constrictis, brunneis, 30 ≃ 10. 2023

Hab. in petiolis Magnoliæ grandifloræ, Aiken in Carolina superiore.

200. **Diplodia Magnoliæ** West. Bull. Ac. Belg. II. Ser. t. XII. n. 7. — Peritheciis epiphyllis, exiguis, immersis, nigris, nitidis; ostiolo papillato epidermidem perforante; sporulis ovoideis, bilocularibus, brunneis, leniter constrictis, 24-26 ≃ 10-11. 2024

Hab. in foliis ramulisque Magnoliæ grandifloræ in hortis Italiæ et Belgii.

201. **Diplodia maculata** C. et Harkn. in Grev. 1881 p. 83. — Epiphylla; maculis irregularibus, fuliginosis, fusco-marginatis; peritheciis applanatis, membranaceis, brunneis; sporulis ellipticis, pallide fuscis, uniseptatis 20 ≃ 5. 2025

Hab. in foliis vivis Arbuti Menziesii (*Madröno*) in California.

202. **Diplodia Harknessi** Sacc. *Diplodia laurina* Cooke et Harkn. Grev. 1881, p. 83. — Epiphylla, sparsa, punctiformis; peritheciis convexis, atro-brunneis; sporulis ellipticis, uniseptatis, fuscis, 10-12 ≃ 4. 2026

Hab. in foliis Lauri in California.

203. **Diplodia Rhododendri** Bell. in West. Bull. Ac. Belg. t. 19, n. 9. — Peritheciis hypophyllis, minutis, punctiformibus, sparsis, nigri- 2027

cantibus, tectis, dein semiemersis, hemisphæricis, ostiolo papillato; sporulis brunneis, ovoideis v. ovato-oblongis, 20 ≃ 10-11, constricto-1-septatis, atro-fuligineis.

Hab. in foliis Rhododendri arborei in hortis Namur in Belgio, et in ramulis Rhododendri pontici, Tarbes in Gallia.

204. **Diplodia arbuticola** (Fr.) Berk Outl. p. 317 *Sphæria arbuticola* Fr. S. M. II. p. 500. — Gregaria, confluens, epidermide nigrescente tecta, peritheciis difformibus nigris astomis, disco demum erumpente opaco; sporulis generis. 2028

Hab. in foliis emortuis Arbuti (Arctostaphyli) Uva-Ursi in Suecia et Scotia. — Valde versiformis, ut plures species facile commutatas crederes. In utraque pagina foliorum ramulorumque, epidermide nigrescente, prominent puncta nigra, niditula, difformia, quæ sunt perithecia in parenchymate nidulantia epidermide adhuc tecta; dein findunt epidermidem in lacinias laxas inæquales, plerumque in lineas longas subramosas curvatas confluentia, nigra, opaca, varia. *Xyloma cupulatum* Fries Obs. 2. p. 360, nil est nisi status vetustissimus.

205. **Diplodia petiolaris** Peck, Rep. on the St. Mus. N. Y. — Peritheciis minutis, sparsis, convexis v. depressis, nigris; sporulis ellipsoideis, 1-septatis leniter constrictis, plerumque 2-nucleatis, fuligineis, 20 μ. longis. 2029

Hab. in petiolis foliorum dejectorum, Greenbush in Amer. bor.

206. **Diplodia Phyllostictæ** Cooke in Grevillea. — Macula pallida, bruneo-cincta; peritheciis semiimmersis, atris, gregariis; sporulis ellipticis, uniseptatis, parvulis, 16 ≃ 8. 2030

Hab. in foliis arborum silvaticarum, Mysore in India or.

207. **Diplodia anomala** Mont. Syll. n. 946 et Cent. III. n. 15, et Cuba, p. 332. — Sparsa conglomerataque, phyllogena; peritheciis innatis erumpentibus ovoideo-conicis acutis, apice poro pertusis; sporulis initio simplicibus (sphæropsideis) oblongis hyalinis pedicellatis, paraphysibus concomitantibus, demum violaceis bilocularibus. 2031

Hab. in foliis coriaceis, Cuba (Auber).

III. *In caulibus herbaceis Dicotyledonearum.*

208. **Diplodia fœniculina** Thüm. Contr. Myc. Lusit. n. 327. — Peritheciis numerosis, subepidermicis postremo perforantibus liberisve, parvulis, nitido-atris, gregariis; sporulis ellipticis vel cylindrico-ellipsoideis, utrinque angustatis et rotundato-acutatis, medio non 2032

constrictis, sæpe leniter arcuatis et inæquilateralibus, dilute fuscidulis, 15–19 ≃ 10–12.

Hab. in caulibus emortuis Fœniculi officinalis, Mizarella pr. Coimbra in Lusitania (Moller).

209. **Diplodia perpusilla** Desm. in Ann. Sc. Natur. 1846, VI. p. 68. 2033
Sphæria Fœniculi Cast. Cat. plant. Mars. p. 176. — Peritheciis sparsis, numerosis, minutissimis, 100 μ. diam., nigris, epidermide primo tectis, dein superficialibus; sporulis ellipticis, medio leniter constrictis, utrinque subacutatis, dilute fuscis, cellula superiore paullulo majore, 8–11 ≃ 4.

Hab. in caulibus exsiccatis Fœniculi officinalis in Gallia.

210. **Diplodia Linariæ** Rabenh. Hedw. 1873, p. 141 (nomen). 2034

Hab. in caulibus siccis Linariæ vulgaris, in primis in eorum areis dealbatis, in Germania.

211. **Diplodia sarmentorum** Fr. Summa Veg. Scand. p. 417. *Sphæria sarmentorum* Fr. S. M. II. p. 498. — Sparsa, peritheciis hemisphæricis prominentibus levibus nitidis, intus atris, ostiolo prominulo sublacerato; sporulis ovoideo-oblongis didymis, 25–30 ≃ 14, fuligineis, vix constrictis, stipitatis. 2035

Hab. in sarmentis Menispermi canadensis in hortis Sueciæ, Germaniæ, Italiæ. — Perithecia utique tecta, sed valde prominent et quando epidermis tollitur, eidem ad dimidium adhærent, non collabentia. Ostioli papillæformis rudimentum rarissime adest, sed perithecia demum lacerata reperiuntur.

212. **Diplodia Humuli** Fuck. Symb. myc. p. 393. — Peritheciis cæspitosis solitariisve, erumpentibus, globosis, in rostrum breve cylindraceum attenuatis, rugulosis, atris; sporulis oblongis, æqualibus («22 ≃ 12, leniter constrictis, fuligineo-nigricantibus»). 2036

Hab. in sarmentis dejectis Humuli Lupuli in Germania et Gallia.

213. **Diplodia Marsdeniæ** Thüm. F. austr. n. 1164. — Peritheciis gregariis, raro confluentibus, epidermide tectis, demum liberis, erumpentibus, majusculis, atris, fere globosis; sporulis ovato-oblongis, fuscis, 18 ≃ 6. 2037

Hab. in ramulis emortuis Marsdeniæ erectæ in horto botanico Pest in Hungaria (H. Lojka) et in horto bot. patavino.

214. **Diplodia asclepiadea** C. et Ell. in Grevillea. — Gregaria; peritheciis globosis, atris, papillatis, levibus, primo tectis, demum denudatis; sporulis ellipticis, brunneis, 2-nucleatis, verisimiliter denique 1-septatis, 20–22 ≃ 10. 2038

Hab. in caule Asclepiadis, New Jersey in Amer. bor.

215. **Diplodia gossypina** Cooke in Grevillea. — Gregaria, erumpens; peritheciis subconicis, atris, subtus applanatis, fibrosis; sporulis ellipticis, olivaceo-brunneis, 22 ≃ 12. 2039

Hab. in capsulis siccis Gossypii, Bombay in India et Washington in America boreali.

216. **Diplodia Sidæ** Pass. et Beltr. F. Sicul. n. 28. — Peritheciis subglobosis longitrorsum seriatis, epidermidem pustulatim sublevantibus, dein denudatis, atris, minute papillatis, plus minus collabentibus; sporulis minutis, oblongo-ellipticis, didymis, fuscis, $7^1/_2 \simeq 3^3/_4$ non vel vix constrictis. 2040

Hab. ad ramos aridos Sidæ pictæ? Licata in Sicilia.

217. **Diplodia Althææ** Speg. Mich. I. p. 485. — Peritheciis superficialibus, hemisphærico-conoideis, ostiolo papillato acutiusculo donatis, 250–300 μ. diam.; sporulis fuligineis, ellipticis, utrinque obtusis, 1-septatis, non vel vix constrictis, 16–20 ≃ 8–9. 2041

Hab. in caulibus emortuis putrescentibus Althææ roseæ, Conegliano in Italia boreali.

218. **Diplodia hypericina** Sacc. Mich. II. p. 266. — Peritheciis sparsis, epidermide tectis, et quandoque ligno semiinfossis, globuloso-depressis, obtuse papillatis, contextu distincte parenchymatico, nucleo initio albo-farcto; sporulis ellipsoideis, 20–25 ≃ 15, stipitellatis, diu hyalinis, dein fuligineis, tenuiter 1-septatis. 2042

Hab. in caulibus Hyperici calycini, Selva in Ital. bor.

219. **Diplodia Androsæmi** Sacc. Mich. II. p. 266. — Peritheciis sparsis epidermide tectis, dein erumpentibus, globosis, conoideo-papillatis, aterrimis; sporulis oblongis 20 ≃ 8–9, constricto-didymis, aterrimis. 2043

Hab. in caule Androsæmi officinalis in silva Montello Italiæ borealis.

220. **Diplodia Dulcamaræ** Fuck. Symb. mycol. p. 175. — Peritheciis seriatim dispositis, confluentibus, erumpentibus, media magnitudine, globosis irregularibusque, atris, papillatis; sporulis ovatis oblongisve fuscis, magnitudine variis (sec. Karst. ad septum constrictis, 22–25 ≃ 12–13). 2044

Hab. in ramulis aridis Solani Dulcamaræ, Hattenheim in Rhenogovia, Jakobstad in Fennia et Coimbra in Lusitania. — Sec. Fuckel pycnidium *Cucurbitariæ Dulcamaræ* Fr.

221. **Diplodia obsoleta** Karst. Symb. myc. Fenn. XV. p. 157. — Peritheciis subgregariis, epidermide tectis, subsphæroideis, astomis v. 2045

sæpius ostiolo perforante papillato, atris, glabris, 0,1–0,2 mill. d.; sporulis oblongis v. subellipsoideis, rectis v. leniter curvulis, subinde inæqualibus, septo obsoleto, flavescentibus, 6–8 ≃ 2–3, subeguttulatis.

Hab. in caulibus aridis Solani tuberosi, prope Mustiala Fenniæ.

222. **Diplodia diatrype** Lév. Ann. Sc. nat. 1846, p. 292. — Perithe- 2046
ciis sparsis v. 3–4 glomeratis, innatis globosis nigris, epidermide in orbem rupta circumdatis; ostiolis papillatis; sporulis generis.

Hab. ad ramos Lycii barbari prope Parisios. — Cl. Léveillé citat quoque in Fraxino excelsiore: an eadem species?

223. **Diplodia Lycii** Symb. myc. p. 394. — Peritheciis in cæspites 2047
oblongos linearesque erumpentibus, subconfluentibus, atris, globosis, demum depressis, minute papillatis; sporulis ovato-oblongis, fuscis.

Hab. in ramulis siccis Lycii barbari in Rhenogovia. — ***D. lyciella** Sacc. Mich. II. p. 622. — Peritheciis subsparsis, globosis, breve papillatis, erumpentibus, ½ mill. diam.; sporulis ovato-oblongis, 25 ≃ 10–12, 1-septatis, vix constrictis, fuligineis; basidiis bacillaribus, hyalinis. In ramulis corticatis Lycii barbari, Saintes in Gallia.

224. **Diplodia rutæcola** Thüm. Contr. F. Litor. n. 141 tab. I. fig. 11. 2048
— Peritheciis minutis, dense gregariis, pulveris pyrii facie, prominulis, globosis, interdum confluentibus, nigris; sporulis cylindrico-ovatis, utrinque rotundatis, septatis, ad septa non vel leniter constrictis, parte inferiore interdum paullo latiore, impellucidis, fuscis, 20 ≃ 8–10.

Hab. ad ramulos emortuos Rutæ graveolentis, Gorizia in Italia boreali.

225. **Diplodia sedicola** Cooke et Harkn. in Grev. 1881, p. 82. — Spar- 2049
sa, prominula, erumpens; peritheciis subglobosis, atris; sporulis ellipticis, uniseptatis, brunneis, medio non constrictis, 20 ≃ 8,5.

Hab. in caule Sedi in California.

226. **Diplodia microscopica** C. et Harkn. in Grev. 1880 p. 6. — Spar- 2050
sa, tecta; peritheciis minimis, vix conspicuis; sporulis ellipticis, pallide fuscis, uniseptatis, leniter constrictis, 10 ≃ 3.

Hab. in caule Cynoglossi in California.

227. **Diplodia Georginæ** (Corda) Lév. Ann. Sc. nat. 1846, pag. 292. 2051
Sporocadus Georginæ Corda Ic. III. p. 23, fig. 64. — Peritheciis punctiformibus, conicis, obtusiusculis, semiimmersis, atris, ostiolo

perforato; sporulis oblongis, constricto-1-septatis, fuscis, 22–26 μ. longis, basidiis paliformibus, hyalinis.

Hab. in caulibus subsiccis Georginæ variabilis in horto botanico Prag in Bohemia.

228. **Diplodia andicola** Speg. Fung. Argent. I. p. 36. — Peritheciis 2052
sparsis, parenchymati immersis, lenticularibus, prominulis, atris, 1/5–1/4 mill. diam., ostiolo impresso donatis, membranaceis; contextu parenchymatico, fuligineo-olivaceo; sporulis ellipticis vel ovoideis, utrinque obtusis primo hyalinis, granuloso-farctis, dein fuligineis 1-pseudoseptatis, 15–20 ≃ 8–10.

Hab. in foliis emortuis Doniophyti andicoli in alpinis de Catamarca Argentinæ.

229. **Diplodia Abrotani** Fuck. Symb. myc. p. 394. — Peritheciis te- 2053
ctis, seriatis, globosis, vertice applanatis, papillatis, atris, basi usque ad medium stramineo-tomentosis; sporulis oblongis, fuscis («continuis?»).

Hab. in caulibus siccis Artemisiæ Abrotani in Rhenogovia.

230. **Diplodia caulicola** Fuck. Symb. myc. p. 392. — Peritheciis gre- 2054
gariis, magnitudine eorum *Pleosporæ herbarum*, globosis, tectis, atris, ostiolis cylindraceis, brevissimis, obtusis, perforatis, per epidermidem erumpentibus; sporulis oblongis («continuis?»).

Hab. in caulibus siccis Tanaceti vulgaris in Rhenogovia.

231. **Diplodia sparsa** Fuck. Symb. myc. p. 395. — Peritheciis tectis, 2055
demum per epidermidem fissam erumpentibus, majusculis, sparsis vel 2–4 aggregatis, globosis, nigris, nitidis; ostiolis minutis, papillatis; sporulis ovatis elongatisve, didymis, fuscis.

Hab. in caulibus siccis Spirææ Ulmariæ, rarius in Rhenogovia.

232. **Diplodia clematidea** Sacc. *Diplodia Clematidis* Kalch. et Cooke 2056
in Grevillea 1880, p. 19, nec Sacc. — Sparsa, erumpens, epidermide cincta; peritheciis obtusis, atris, opacis; sporulis ellipticis, uniseptatis, non constrictis, fuscis, 12–14 ≃ 5.

Hab. in caulibus Clematidis brachiatæ in Africa austr.

233. **Diplodia Clematidis** Sacc. Mich. I. p. 518. — Peritheciis grega- 2057
riis, subcutaneo-erumpentibus, globoso-papillatis, 1/5 mill. diam.; sporulis ovoideis, 20–25 ≃ 12-14, diu continuis, fuligineis.

Hab. in sarmentis Clematis Vitalbæ, Saintes in Gallia (Brunaud).

234. **Diplodia Lupini** Cooke et Harkn. in Grev. 1881, p. 82. — Spar- 2058
sa; peritheciis atris, globosis, semiliberis; sporulis ellipticis, utrin-

que subattenuatis, uniseptatis, medio constrictis, brunneis, cellulis subtriquetris, 28 ≃ 10.

Hab. in caulibus Lupini in California.

235. **Diplodia elæospora** Sacc. Mich. II. p. 105. — Peritheciis gregariis, initio epidermide velatis, dein erumpentibus, globoso-papillatis, 1/5 mill. diam.; contextu parenchymatico fusco; sporulis ovato-oblongis, 18-20 ≃ 5-6, constricto-1-septatis rectis, utrinque obtusiusculis, pluriguttulatis, flavo-olivaceis, brevissime stipitatis. 2059

Hab. in caulibus putrescentibus Medicaginis sativæ, Saintes in Gallia (Brunaud).

236. **Diplodia Passifloræ** Penz. et Sacc. F. Mortol. n. 35, tav. V. fig. 19. — Peritheciis sparsis vel laxe gregariis, epidermide tectis, demum erumpentibus, majusculis 180-200 μ. diam., globosis, ostiolo papillato, conico, contextu parenchymatico, aterrimo, carbonaceo; sporulis didymis, medio forte restrictis, loculo utroque fere globuloso, sphæroideo, brunneo-olivaceis, 23-25 ≃ 11-12,5; basidiis obsoletis. 2060

Hab. in pedunculis exsiccatis Passifloræ hybridæ, Mortola in Italia boreali.

237. **Diplodia Aconiti** Paul Brunaud in Roum. Revue Mycol. IV. p. 225. — Peritheciis sparsis vel aggregatis, tectis, dein erumpentibus, globuloso-depressis, nigris, lucidis; sporulis oblongis, 1-septatis, non constrictis, fuligineis, 20 ≃ 8. 2061

Hab. in ramis emortuis Aconiti Napelli, Saintes in Gallia.

238. **Diplodia Ricini** Sacc. et R. in Rev. Myc. III. p. 29. — Peritheciis gregariis, tectis, globoso-conoideis, 1/6 mill. diam.; sporulis oblongis, 25 ≃ 6,5-7, diu hyalinis, dein fuligineis 1-septatis, haud constrictis, stipitellatis. 2062

Hab. in caule Ricini, Jardin du Hamma in Algeria.

239. **Diplodia Euphorbiæ** Brun. in Roum. Revue Myc. IV. p. 226. — Peritheciis epidermide tectis, dein erumpentibus, sparsis vel aggregatis, globuloso-convexis, nigris, lucidis, pertusis, 1/4 mill. diam.; sporulis oblongis, initio hyalinis et continuis, granulosis, dein 1-septatis, fuliginosis, non constrictis, 24-25 ≃ 10-10,5. 2063

Hab. in caulibus emortuis Euphorbiæ palustris, Saintes in Gallia.

240. **Diplodia Rheea** Cooke in Grevillea. — Sparsa, erumpens; peritheciis atris, globosis, subpapillatis; sporulis ellipticis, fuligineis, demum uniseptatis, 20 ≃ 8. 2064

Hab. in caulibus Bœhmeriæ niveæ, Assam in India.

241. **Diplodia vulgaris** Lév. Ann. Sc. nat. 1846, p. 291. — Peritheciis globosis, innatis, gregariis, epidermide stellatim fissa tectis, intus albis («semper?»), ostiolis prominulis. 2065

Hab. in caulibus corticatis variarum herbarum (Léveillé), Hymenææ et Hederæ in Amer. bor. (Clinton, Ravenel), Dipteryicis in Cuba (Berkeley).

242. **Diplodia herbarum** (Corda) Lév. Ann. Sc. nat. 1846, p. 292. *Sporocadus herbarum* Corda Ic. III. f. 63. — Peritheciis caulicolis, erumpentibus, gregariis, globoso-oblongis, convexis, dein inæqualiter depressis, nigris; sporulis oblongis, 1-septatis, leniter constrictis, fuligineis pedicellatis, 20-25 ≃ 9-12. 2066

Hab. in caulibus Lappæ, Thalictri, Lactucæ, Ferulæ, Gossypii, Lilii etc. in Gallia, Germania, Britannia, Italia, Algeria, America bor. — Var. β. **Menthæ** Sacc. Mich. I. pag. 517: peritheciis subcutaneis, minutis; sporulis ovato-oblongis, 25 ≃ 10, constricto-1-septatis pedicellatis, atrofuligineis. In caule Menthæ, Saintes in Gallia. — Var. γ. **Dianthi** Sacc. Spec. p. 202, non Ces.: peritheciis cylindraceo-conicis, majusculis, atris; sporulis didymis fuscis, medio vix constrictis, 18 ≃ 12. In caulibus Dianthi Caryophylli Patavii.

243. **Diplodia Andamensis** Cooke in Grevillea. — Gregaria, erumpens; peritheciis applanatis, nigris, supra depressis, pallido-cinctis; sporulis ellipticis, brunneis, non constrictis, 28-30 ≃ 12. 2067

Hab. in caule repente cujusdam plantæ dictæ Pilita Dak, in insulis Andaman Oceani indici.

IV. *In Monocotyledoneis.*

244. **Diplodia smilacina** Berk. North Am. p. 67 (nomen), Sacc. M. V. n. 1027. — Peritheciis gregariis, subcutaneo-erumpentibus, prominulis, globoso-papillatis, atris, cuticulâ atrata nitida tectis v. cinctis; sporulis brevibus, didymis, 20 ≃ 14, fuligineis. 2068

Hab. in sarmentis emortuis Smilacis rotundifoliæ et tamnoidis, Ohio et Carolina super., et Smilacis Alpini in horto patavino Ital. bor. — Ubi cl. Berkeley speciem suam descripserit, nunc me latet.

245. **Diplodia Rusci** Sacc. et Th. Mich. II. p. 625. — Peritheciis late gregariis, $^1/_6$ mill. diam., subcutaneis, globulosis, ostiolo vix erumpente; sporulis oblongis, uniseptatis, leniter constrictis, utrinque obtusiusculis, 8-10 ≃ 5-6, fuligineis. 2069

Hab. in caule emortuo Rusci aculeati, St. Vallier (Drôme) in Gallia (Therry).

246. **Diplodia minuscula** Penz. et Sacc. F. Mort. n. 34, tav. V. fig. 18. — Peritheciis minutissimis, gregariis, punctiformibus, innato-erumpentibus, depressis, brunneis, 67–100 μ. diam.; sporulis ellipticis vel ovoideis, medio septatis, loculis sæpius inæqualibus, atro-brunneis, ad septum haud constrictis, 8–10 ≃ 2–3,5. 2070

Hab. in squamis exsiccatis Dracænæ indivisæ, Mortola in Italia boreali.

247. **Diplodia Agaves** Niessl in Hedw. 1878, p. 176. — Peritheciis gregariis, minutis, epidermide velatis, depressis, atris; sporulis oblongis, rotundatis, medio 1-septatis, fuscis, 6–9 ≃ 4. 2071

Hab. ad folia languida Agaves americanæ in India orient. (Doct. S. Kurz).

248. **Diplodia circinans** B. et Br. F. of Ceyl. n. 786. — Peritheciis circinantibus epidermide nigrifacta centro pallido tectis; sporulis brevibus ellipticis obtusissimis 25 ≃ 10. 2072

Hab. in foliis Yuccæ gloriosæ et aloifoliæ in Ceylon et America boreali.

249. **Diplodia Yuccæ** West. V. Not. p. 18. — Peritheciis epiphyllis, sparsis, epidermide dein laciniatim fissa tectis, nigris, globuloso-papillatis; sporulis ovoideis, 2-locularibus, fuligineis. 2073

Hab. in basi foliorum Yuccæ aloifoliæ in Belgio (Leburton) et in Lusitania (Moller). — Specimina, quæ vidi, italica in Yucca gloriosa (Erb. cr. ital.), ad *Coniothyrium* spectant.

250. **Diplodia Radula** B. et Br. F. of Ceyl. n. 785. — Peritheciis minutis epidermidem albifactam elevantibus, ostiolis distinctis; sporulis ellipticis, 25 μ. longis. 2074

Hab. in Musaceis in insula Ceylon (Berk., Beccari). — Basidia cuneiformia.

251. **Diplodia pinnarum** Passer. Micromyc. ital. diagn. sub n. 8, p. 2. Penzig in F. Mortol. n. 36. — Peritheciis sæpe seriatis, erumpentibus, globoso-conicis, atris; sporulis ellipsoideis minutis, 10–12 ≃ 5–6, 1-septatis, vix constrictis fuligineis. 2075

Hab. in foliis languidis Phœnicis dactyliferæ in Liguria (Passerini, Penzig).

252. **Diplodia Passeriniana** Thüm. Fungi nonnull. ital. novi. — Peritheciis epiphyllis, raro amphigenis, sparsis, sæpe plus minusve in orbem dispositis, epidermide tectis, demum erumpentibus, minutis, atris, in macula exarida, sordide flavescenti, rufo-marginata, præ- 2076

cipue in foliorum apicibus marcidis; sporulis parvis, ovalibus, utrinque rotundatis, uniseptatis, ad septum leniter constrictis, cinereis, 8-11 ≃ 3,5-4,5.

Hab. in foliis vivis v. languidis Phœnicis et Chamæropis Genova, S. Remo, Bordigham in Liguria. — A *Dipl. depazeoide* distinguenda.

253. **Diplodia palmicola** Thüm. F. Austr. n. 59. — Peritheciis numerosis, minutis, primo longe diu epidermide tectis, demum erumpentibus, subplanis, levibus vel leviter granulatis, subimmersis, atris, mox evacuatis; sporulis longe ellipticis, utrinque subacutatis, medio non constrictis, bicellularibus, sordide fuscis, impellucidis, 20 ≃ 10. 2077

Hab. in epicarpio Cocos nuciferæ, Wien in Austria. — *Sphæria palmicola* Fr. Obs. mycol. I. p. 179 et S. M. II. p. 466 an eadem planta? — Differt a *Diplodia epicocos* Cooke Grev. VI. p. 102, sporulis medio non constrictis et paullo minoribus.

254. **Diplodia cococarpa** Sacc. Miscell. myc. F. Tah. n. 6. — Peritheciis dense gregariis, subcutaneo-erumpentibus, globosis, papillatis atris, intus nitidulis, 1/3 mill. diam.; sporulis stipitatis ellipsoideo-oblongis, 22 ≃ 12, 1-septatis, vix constrictis fuligineis, subinde longitudinaliter striatulis, filamentis (paraphysibus?) filiformibus, hyalinis, duplo longioribus intermixtis. 2078

Hab. ad parietem inter pericarpii putridi Cocos nuciferæ in insula Tahiti (G. Brunaud). V. 1102.

255. **Diplodia epicocos** Cooke in Grevillea t. 86, fig. 2. — Sparsa vel subgregaria; peritheciis demum superficialibus vel semiimmersis, globosis, atris; sporulis ellipticis, uniseptatis, constrictis, brunneis, 22 ≃ 10-12. 2079

Hab. in foliis juvenilibus emortuis Cocos nuciferæ in India orient.

256. **Diplodia depazeoides** Dur. et Mont. Fl. Alg. pag. 575 et Syll. Crypt. p. 266. — Amphigena, maculiformis; peritheciis minutis epidermide tectis, demum erumpentibus, globoso-depressis, atris, in utraque folii decolorati pagina obviis; basidiis brevibus, sporulas breviter oblongas biloculares sustinentibus. 2080

Hab. in foliis Chamæropis humilis, Mascara in Algeria (Durieu) et Phœnicis dactyliferæ in horto botanico Coimbra in Lusitania (Moller).

257. **Diplodia Calami** Niessl in Hedw. 1878, pag. 176. — Peritheciis .....; sporulis oblongis, obtusis, medio 1-septatis, fuscis, 8-10 μ. latis. 2081

Hab. in foliis emortuis Calami in India orient. (Doct. Kurz).

258. **Diplodia caricina** Sacc. M. V. n. 1208. et Mich. I. p. 256. — Peri- 2082
theciis gregariis, globosis, innato-erumpentibus, atris, ostiolo conoideo parum emergente; sporulis obovoideis, 25 ≃ 15, diu continuis, fuligineis.

Hab. in foliis emortuis Caricis japonicæ in horto patavino Ital. bor. (Bizzozero). — An *Sphæropsis?*

259. **Diplodia pellica** Cesati Hedw. 1882, p. 9, Syll. fung. II. p. 68. 2083
— Peritheciis sparsis, subcutaneis, nigris; sporulis ovoideis utrinque obtusissimis, 20 ≃ 14, obscure septatis, brunneis.

Hab. in foliis Dasylirii juncei in horto botanico neapolitano, sociâ *Leptosphæria* et *Phoma.*

260. **Diplodia myriospora** Sacc. Mich. II. p. 269. — Peritheciis gre- 2084
gariis v. hinc inde aggregatis, erumpenti-superficialibus, globulosis, papillatis, piceis $^1/_3$-$^1/_2$ mill. diam.; contextu parenchymatico atrofuligineo; sporulis ellipsoideis, minutis, 5-6 ≃ 2-$^1/_2$-3, 1-septatis, non constrictis, fuligineis, basidiis brevissimis suffultis.

Hab. in culmo putri Arundinis Donacis intus et extus, Padova in Italia boreali (Bizzozero).

261. **Diplodia arundinacea** Dur. et Mont. Fl. Alg. p. 574 et Syll. n. 2085
954. — Peritheciis innato-erumpentibus globoso-papillatis, sparsis v. aggregatis, atris opacis, tandem denudatis deciduis; basidiis longis; sporulis oblongis mature bilocularibus fuscis, 20-25 ≃ 12-15, medio vix constrictis.

Hab. intra culmum fistulosum Phragmitis communis, La Calle in Algeria (Durieu) et Arundinis Donacis, Padova in Italia boreali.

262. **Diplodia Secalis** (Lib.) Speg. et Roum. in Rev. Myc. *Melanco-* 2086
nium Secalis Lib. Herb. — Peritheciis minimis globosis, tomentosis, nigris, epidermide tectis; sporulis minutissimis, ovoideis atris didymis, rarius continuis, fuligineis, 6-8 ≃ 3-4, mox cirrose exsilientibus matricemque atro-inquinantibus.

Hab. in culmis putrescentibus Secalis cerealis prope Malmedy in Arduennis.

263. **Diplodia Maydis** (Berk.) Sacc. *Sphæria Maydis* Berk. Lond. 2087
Journ. 1847, p. 326, *Sphæria Zeæ* Curr. Simpl. Sphær. n. 358, f. 128. *Dipl. Zeæ* Lév. Ann. Sc. nat. 1848, p. 258. — Peritheciis gregariis, innatis, ovatis, intus extusque nigris, epidermide nigra tectis, ostiolis erumpentibus, conico-acutis; sporulis elliptico-cylin-

draceis, utrinque obtusiusculis subinde clavulatis, rectis vel curvulis, 1-septatis, vix constrictis, 25-30 ≃ 6, fuligineis.

Hab. in culmis, interdum pallide maculatis, Zeæ Maydis in Carolina, Ohio, New Jersey, Gallia, Italia frequens.

264. **Diplodia Ischæmi** Pass. Erb. critt. it. II. n. 594. — Peritheciis 2088
erumpentibus, aggregatis v. sparsis, subglobosis, atris, ostiolo vix prominulo; sporulis oblongo-ellipsoideis, initio continuis, hyalinis, tandem 1-septatis, non v. vix constrictis, 20-25 ≃ 8-9, fuligineis; basidiis bacillaribus, hyalinis.

Hab. in culmis et rhizomatibus Andropogonis Ischæmi, Parma, Padova in Italia boreali (Pass., Sacc.) et Eisleben in Germania (Zopf).

MACRODIPLODIA Sacc. (Etym. *macros* longus v. magnus, et *Diplodia*). — Perithecia tecta, corticola, majuscula, massarioidea, vertice pertusa. Sporulæ oblongæ, 1-septatæ, fuligineæ, strato mucoso hyalino obductæ, stipitellatæ. — Pycnidia *Massariarum* sistit genus.

1. **Macrodiplodia Curreyi** Sacc. et Roum. Reliq. Libert. IV. n. 138. 2089
— Peritheciis gregariis massarioides globulosis, tectis; sporulis oblongis, utrinque obtusiusculis, 60 ≃ 18, medio 1-septatis, vix constrictis, fuligineis, strato mucoso obductis, dein eructando fœdantibus; basidiis bacillaribus 10 μ. longis, hyalinis.

Hab. in ramis corticatis Tiliæ europææ in Arduennis (Libert). — Pycnidium *Massariæ Curreyi*.

2. **Macrodiplodia Ulmi** Sacc. *Massariæ Ulmi* pycnid. Fuck. Symb. 2090
p. 153. — Peritheciis in corticis superiori parte nidulantibus, triplo minoribus quam fungi ascophori, nucleo sordide albo; sporulis oblongo-lanceolatis, medio 1-septatis, annulo hyalino, angustissimo, 64 ≃ 26.

Hab. in ramis corticatis Ulmi campestris in Rhenogovia.

CHÆTODIPLODIA Karst. Hedw. 1884, p. 62 (Etym. *chætæ* seta, et *Diplodia*). — Perithecia setosa v. pilosa, erumpentia v. subsuperficialia, globoso-papillata, atra, membranaceo-carbonacea. Sporulæ oblongæ 1-septatæ, coloratæ.

1. **Chætodiplodia caulina** Karst. Hedw. 1884, pag. 62. — Peritheciis 2091
gregariis subsuperficialibus subcarbonaceis, ovoideis, minute papillatis, atris, setulis substrictis, divergentibus, septatis, atris obsessis, 0,3 mill. diam.; sporulis oblongatis v. subellipsoideis, rectis

utrinque obtusis, 1-septatis, non v. vix constrictis, flavidis, 12–17 ≃ 5–6.

Hab. in caulibus emortuis (nigrificatis) Chenopodii albi, Mustiala in Fennia.

2. **Chætodiplodia hirta** Sacc. *Massariæ hirtæ* Pycnidium Fuck. Symb. p. 155. — Peritheciis minutis, atris, pilis pallidioribus undique tectis, sub epidermide nidulantibus, majusculis; sporulis ovatis oblongisve, plerumque uniseptatis, rarius 2–3-septatis, fuscis, 10 ≃ 4–5. 2092

Hab. in ramis corticatis Sambuci racemosæ in Rhenogovia.

3. **Chætodiplodia arachnoidea** (Ces.) Sacc. *Diplodia arachnoidea* Ces. Hedw. I. p. 41, t. V. fig. 1, — Peritheciis stromate punctiformi byssino radiante evanido insidentibus, nunc minutissimis etiam adultis, et tum dense aggregatis, nunc grani Sinapeos magnitudine et sparsis magis, semper regularibus, e lata basi ovatis vel conicis, nigris sed denso tegmine araneoso cinereo velatis, nisi papilla obtusa atra emergente; sporulis didymis, opacis, olivaceis; cirris aterrimis. 2093

Hab. in ligno laricino vernice olearia obducto in Lyceo vercellensi Italiæ bor.

4. **Chætodiplodia chætomioides** (Ces.) Sacc. *Diplodia chætomioides* Ces. Hedw. I. t. V. f. 2. a-f. (sine diagnosi). — Peritheciis dense gregariis subsuperficialibus inæqualibus, globoso-oblongis, apice obtusis v. rotundatis v. subconicis, atris, pilis patulis brevibus conspersis; sporulis oblongis, utrinque rotundatis, typice biguttatis, subinde medio leniter constrictis, fuligineis, stipitellatis. 2094

Hab. in asseribus laricinis vernice e recenti illitis, aëri et luci expositis, Vercelli in Italia superiore, sociâ *Chætodiplodia arachnoidea*. — Sporulæ continuæ revera delineatæ sunt, sed quia biguttatæ et medio leniter constrictæ verisimiliter biloculares fierent.

5. **Chætodiplodia hirtella** Sacc. Mich. II. p. 268 (sub *Diplodia*). — Peritheciis sparsis, erumpenti-subsuperficialibus, globoso-papillatis, aterrimis, setulosis; sporulis oblongo-ellipsoideis, 25–28 ≃ 12–14, diu hyalinis, stipitellatis, medio subconstrictis. 2095

Hab. in foliis Pittospori Tobiræ in horto patavino Italiæ borealis.

DIPLODIELLA Karst. Hedw. 1884, p. 62 (Etym. a *Diplodia*, cui affine genus). — Perithecia superficialia, plerumque lignicola, globoso-papillata, atra, glabra, subcarbonacea. Sporulæ ellipsoideæ v. oblongæ, 1-septatæ, coloratæ.

1. **Diplodiella crustacea** Karst. Hedw. 1884, pag. 62. — Peritheciis confertissimis, crustaceo-aggregatis, superficialibus, carbonaceis, subovoideis, vertice attenuatis, atris, glabris, nitidis, 0,3–0,4 mill. diam.; sporulis oblongatis v. ellipsoideis, utroque apice obtusis, rectis v. subrectis, 1-septatis, septo non v. vix constrictis, dilute fuscidulis, 8–13 ≃ 3-4. 2096

   Hab. ad lignum pineum prope Mustiala in Fennia.

2. **Diplodiella fibricola** (Berk.) Sacc. *Diplodia fibricola* Berk. Hook. Journ. 1853, p. 42, t. III. f. 12. — Maculis pallidis v. obsoletis; peritheciis minutis elongatis, fibrarum cursum sectantibus; sporulis minutis, ellipsoideis, medio leniter constrictis septatisque, 6 μ. longis pallide ochraceo-brunneis. 2097

   Hab. in ligno Populi italicæ, King's Cliffe in Britannia.

3. **Diplodiella oospora** (Berk.) Sacc. *Diplodia oospora* Berk. Hook. Journ. 1853, p. 42, t. II. f. 11. — Maculis olivascentibus; peritheciis minutis, elongatis; sporulis minutis, obovatis, brunneo-ochraceis, 1-septatis, 7,6 ≃ 6. 2098

   Hab. in ligno salicino, King's Cliffe in Britannia.

4. **Diplodiella quercella** Sacc. et Penz. Mich. II. p. 623 (sub *Diplodia*). — Peritheciis subsuperficialibus, sparsis, globosis, papillatis, minutulis, atris; sporulis oblongis, 1-septatis, lenissime constrictis, 18–19 ≃ 7–9, fuligineis; basidiis teretiusculis, hyalinis, 15–16 ≃ 2–2,5. 2099

   Hab. in ligno denudato putrescente Quercus, Lyon in Gallia (Therry).

5. **Diplodiella fibriseda** Sacc. Mich. II. p. 270. (sub *Diplodia*). — Peritheciis minutis e fibris ligneis erumpentibus, globoso-oblongis, papillulatis, aterrimis; sporulis diu hyalinis, continuis, guttulatis, tandem 1-septatis, vix constrictis, 20–25 ≃ 12–13, fuligineis. 2100

   Hab. in ligno denudato Juglandis et Broussonetiæ, Vittorio, Padova in Italia boreali. — Habitus *Dipl. fibricolæ* Berk., sed sporulæ diversissimæ.

6. **Diplodiella decorticata** (C. et Ell.) Sacc. *Diplodia decorticata* C. et Ell. in Grevillea. — Subgregaria; peritheciis breviter hysterii-formibus, atris, in fibrillis insidentibus; sporulis ellipticis, profunde constrictis, brunneis, 20–25 ≃ 12–15, loculis depresso-sphæroideis. 2101

   Hab. in ramis decorticatis Sassafras, New Jersey in America boreali.

7. **Diplodiella millegrana** (C. et Harkn.) Sacc. *Diplodia millegrana* C. et Harkn. in Grevillea n. 64. — Superficialis, gregaria; peritheciis subglobosis, atris, levibus, minimis; sporulis ellipticis, uni- 2102

septatis, utrinque rotundatis, medio non constrictis, læte fuscis, 22-30 ≃ 8.

Hab. in ramis decorticatis Acaciæ in California. — Habitus fere *Rosellinicæ millegranæ*.

8. **Diplodiella Tecomæ** (C.) Sacc. *Diplodia Tecomæ* Cooke in Grevillea. — Erumpens, demum libera; peritheciis globosis vel piriformibus, atris, sparsis; sporulis ellipticis, uniseptatis, nec constrictis, utrinque nucleatis, atrobrunneis, 30 ≃ 12. 2103

Hab. in ligno Tecomæ radicantis, Aiken Carolinæ inf. in Amer. bor. — An forma lignicola *Diplodiæ Tecomæ* Pass.?

9. **Diplodiella lignicola** (Peck) Sacc. *Diplodia lignicola* Peck Rep. on the St. Mus. N. Y. — Peritheciis sparsis v. gregariis, prominulis, subglobosis, nigris; sporulis oblongis, constricto-1-septatis, 35 ≃ 10. 2104

Hab. in ligno decorticato Abietis balsameæ, Adirondack in America boreali.

10. **Diplodiella Cowdelli** (B. et Br.) Sacc. *Diplodia Cowdellii* B. et Br. Ann. N. H. n. 406. — Peritheciis liberis, globosis, nigris, vertice demum dehiscentibus; sporulis minutis, ellipsoideis, 1-septatis. 2105

Hab. in pappo udo Gossypii, cui maculas atras affert, in Britannia.

11. **Diplodiella diversa** (Speg.) Sacc. *Diplodia diversa* Sp. F. Arg. Pug. III. n. 120. — Peritheciis ligno denudato insidentibus, lenticulari-hemisphæricis, atris, carbonaceis, $^1/_3$ mill. diam., ostiolo papillato donatis; sporulis cylindraceo-ellipticis, medio 1-septatis, non v. vix constrictis, 20-22 ≃ 8-10, fuligineis. 2106

Hab. in sarmentis putridis Araujæ albentis en la Boca del Riachuelo in Argentina.

BOTRYODIPLODIA Sacc. Mich. II. p. 7. (Etym. *botrys* racemus et *Diplodia*, h. e. Diplodia racemoso-congesta). — Perithecia botryoso-congesta, erumpentia, stromate basilari suffulta, membranaceo-carbonacea, sæpius papillata. Sporulæ oblongæ v. ovoideæ, 1-septatæ, fuligineæ.

1. **Botryodiplodia juglandicola** (Schw.) Sacc. *Diplodia juglandicola* (Schw.) Curr. Comp. Sphær. p. 276. fig. 121. *Sphæria juglandicola* Schw. Cfr. Syll. II. p. 379. — Innata, prominens, pustulis in series parallelas confluentibus, stromate corticali circumscripto; sporulis ovato-oblongis, constricto-1-septatis, 23-25 μ. longis, fuligineis. 2107

Hab. in ramis corticatis Juglandis albæ in Carolina Amer. bor. — Habitus, teste Curreyo, *Melanommatis Pulveris-pyrii.*

2. **Botryodiplodia confluens** (B. et Br.) Sacc. *Diplodia confluens* B. et Br. Ann. N. H. n. 408. — Peritheciis confluentibus cæspitulosque epidermide arrecta cinctos depressos formantibus, irregularibus subinde collabascentibus; ostiolo obsoleto; sporulis oblongis. 2108

Hab. in ramis Daphnes Laureolæ in Britannia et Gallia.

3. **Botryodiplodia congesta** (Lév.) Sacc. *Diplodia congesta* Lév. Ann. Sc. nat. 1846, p. 290. — Peritheciis aggregatis, globosis, innatis, demum erumpentibus nigris epidermide lacerata cinctis, ostiolis prominulis; (« sporulis oblongo-ellipsoideis, utrinque rotundatis, 26-28 ≃ 10-12, diu hyalinis plasmateque bipartito, tandem obscure 1-septatis, fuligineis, non vix constrictis; basidiis 18-20 μ. longis »). 2109

Hab. ad corticem Juglandis regiæ pr. Paris in Gallia, et in Italia boreali.

4. **Botryodiplodia Fraxini** (Fr.) Sacc. *Diplodia Fraxini* Fr. Summa Veg. Sc. p. 417. *Sphæria Fraxini* Fr. S, M. II. p. 493 p. p.? — Cæspitoso-erumpens; peritheciis globosis, papillatis, stipatis, nigris; sporulis clavato-didymis, 20-25 ≃ 10, fuligineis, corticatis, hyalino-stipitatis. 2110

Hab. in ramis corticatis Fraxini excelsioris et Orni in Suecia, Germania, Italia, Gallia.

5. **Botryodiplodia scabrosa** (West.) Sacc. *Diplodia scabrosa* West. Exs. n. 1372, Kickx Fl. cr. Fl. I. p. 398. — Peritheciis majusculis, cæspitoso-erumpentibus, tuberculosis, nigris, poro pertusis; sporulis inæqualibus, ovoideis v. ellipsoideo-oblongis, 1-septatis, subinde constrictis, fuligineis. 2111

Hab. in trunco emortuo Ailanthi glandulosæ in Belgio.

6. **Botryodiplodia Ailanthi** (Cooke) Sacc. *Diplodia Ailanthi* Cooke in Rav. Fung. Amer. n. 150 et in Grevillea. — Erumpens; peritheciis in pustulas congestis, epidermide cinctis; sporulis ellipticis, uniseptatis, non constrictis, brunneis, 25-28 ≃ 10. 2112

Hab. in ramis Ailanthi glandulosæ in Carolina Amer. bor. — An diversa a *Botr. scabrosa?*

7. **Botryodiplodia Ravenelii** Sacc. Mich. I. — Peritheciis botryose aggregatis, stromate pulvinato suffultis, globuloso-depressis, nigris, intus initio albis, $^1/_6$ mill. diam.; sporulis ellipsoideis, diu continuis, 30 ≃ 17, dein 2-locularibus, leniter constrictis, fuligineis, 25 ≃ 16, basidiis filiformibus subæquilongis suffultis. 2113

Hab. in cortice sarmentorum Carolinæ infer. in America bor. (Ravenel).

8. **Botryodiplodia compacta** (C. et Ger.) Sacc. *Diplodia compacta* C. et Ger. in Grevillea. — Pustulis erumpentibus, epidermide cinctis; peritheciis confluentibus, obtusis; sporulis ellipticis vel biglobosis, brunneis, constrictis, 30 ≃ 18. 2114

Hab. in ramis arborum Americæ borealis.

9. **Botryodiplodia valsoides** (Peck.) Sacc. *Diplodia valsoides* Peck. Rep. on the St. Mus. N. Y. — Peritheciis cæspitosis, cortice interiore nidulantibus, in ostiola longa stromate olivaceo juncta attenuatis, per corticem transverse fissum erumpentibus, nigris; sporulis oblongo-ellipsoideis, profunde constrictis, coloratis, 18–19 μ. longis. 2115

Hab. in cortice Betulæ populifoliæ, Center in Amer. bor. — Habitus Valsæ cujusdam.

10. **Botryodiplodia cyanostroma** (B. et C.) Sacc. *Diplodia cyanostroma* B. et C. North Am. Fungi n. 423. — Peritheciis in stromate cyaneo abditis, pustulato-aggregatis; sporulis breviter obovatis vel oblongis pallidis, 12–13 ≃ 6. 2116

Hab. in ramis dejectis in Pensylvania. — Si sporulæ semper pallidæ manent, vix *Botryodiplodiæ* species.

11. **Botryodiplodia Celastri** (C.) Sacc. *Diplodia Celastri* Cooke in Grevillea. — Cæspitosa, erumpens; peritheciis atris, compressis, elongatis, vix papillatis; sporulis ellipticis, uniseptatis, brunneis, vix constrictis, 25 ≃ 10. 2117

Hab. in ramis Celastri, New York in Amer. bor.

12. **Botryodiplodia compressa** (Cooke) Sacc. *Diplodia compressa* Cooke. — Diatrypeformis, erumpens; peritheciis in cæspitulos erumpentes congestis, atris; sporulis late ellipticis, uniseptatis, non constrictis, brunneis, 20 ≃ 12–14. 2118

Hab. in ramis Rhois, New York in Amer. bor.

13. **Botryodiplodia hypoxyloidea** (C.) Sacc. *Diplodia hypoxyloidea* Cooke in Grevillea. — Cæspitosa, erumpens; peritheciis atris, papillatis, in pulvinulos convexos congestis, stromate diatrypoideo; sporulis ellipticis, atro-brunneis, uniseptatis, leniter constrictis, 18–20 ≃ 8. 2119

Hab. in cortice radicis Moringæ in Bengala.

14. **Botryodiplodia sphærioides** (Fr.) Sacc. *Dothiora sphærioides* (Fr.) Cooke Handb. n. 1255. — Gregaria subfasciculata erumpens, ir- 2120

regulariter angulata, dein plana, nigra, intus albida; sporulis maturis (teste Capron in Cooke l. c.) diplodioideis.

Hab. in ramis Fraxini in Britannia et Suecia.

15. **Botryodiplodia pyrenophora** (Berk.) Sacc. *Dothiora pyrenophora* Berk. Exs. n. 282, Cooke Handb. n. 1254. — Erumpens elliptica, plano-depressa, nigra, intus pallida; sporulis (teste Cooke) 1-septatis, brunneis, diplodioideis. 2121

Hab. in ramis Sorbi, Mali et Piri in Suecia et Britannia. — Primo adspectu *Dothideæ ribesiæ* simillima.

16. **Botryodiplodia? loculata** (Mont.) Sacc. *Diplodia loculata* Mont. Fl. Chil., VII. p. 483, t. 9, f. 10 et Syll. n. 945. — Peritheciis gregariis globosis cortice innatis prominulis (varioloideis) epidermide cinctis atris, in loculamenta divisis albis, ostiolo obsoleto; sporulis oblongis breviter stipitatis, sero septatis. 2122

Hab. in ramis emortuis, Chile (Bertero).

REPERTORIUM

SPHÆRIOIDEARUM PHÆODIDYMARUM

SECUNDUM MATRICES

Obs. B. indicat *Botryodiplodia*. — C. *Chætodiplodia*. — D. *Diplodia*. — De. *Diplodiella*. — M. *Macrodiplodia*.

N. 1825 — 1999 citantur 825 — 999
N. 2001 — 2122 citantur 1 — 122

Abies — D. 948. 995. 998. — De. 104.
Acacia — D. 863. 864. 865. 986. 990. 991. — De. 102.
Acer — D. 834. 835. 836. 986. 2000.
Aconitum — D. 61.
Æsculus — D. 837.
Agave — D. 71.
Ailanthus — D. 844. 946. — B. 111. 112.
Albizzia — D. 862.
Alnus — D. 977. 978.
Althæa — D. 41.
Amelanchier — D. 899.
Amorpha — D. 872.
Amygdalus — D. 890.
Andropogon — D. 88.
Androsæmum — D. 43.
Anona — D. 825.
Araucaria — D. 984. 986. 993.
Arauja — De. 106.
Arbutus — D. 924. 25.
Arctostaphylos — D. 28.
Artemisia — D. 53.
Arundo — D. 84. 85.
Asclepias — D. 38.
Aucuba — D. 915. 7.

Berberis — D. 826. 983.
Betula — D. 876. — B. 115.
Bignonia — D. 933.
Boehmeria — D. 64.
Broussonetia — D. 955. — De. 100.
Buxus — D. 942. 943. 6.

Calamus — D. 81.
Calycantus — D. 902.
Carex — D. 82.
Carica — D. 952.
Carpinus — D. 966. 986.
Cassia — D. 871.
Cassinopsis — D. 847.
Castanea — D. 968.
Celastrus — B. 117.
Celtis — D. 944. 945.
Cercis — D. 866.
Chamærops — D. 76. 80.

Chenopodium — C. 91.
Chimonanthus — D. 901.
Chionanthus — D. 931.
Citrus — D. 832. 833. 14.
Clematis — D. 56. 57.
Cocos — D. 77. 78. 79.
Cornus — D. 914.
Corylus — D. 967. 986. 10.
Cratægus — D. 887.
Cupressus — D. 982. 983.
Cydonia — D. 888.
Cynoglossum — D. 50.
Cytisus — D. 867. 868. 954. 992.

Daphne — B. 108.
Dasylirion — D. 83.
Dianthus — D. 66.
Dipterix — D. 65.
Doniophytum — D. 52.
Dracæna — D. 70.

Edgworthia — D. 933.
Elæagnus — D. 941.
Embryopteris — D. 12.
Eriobotrya — D. 17.
Evonymus — D. 846. 3.
Eucalyptus — D. 906. 907. 908. 986.
Euphorbia — D. 63.

Fagus — D. 969.
Ferula — D. 66.
Ficus — D. 948. 949. 953.
Fœniculum — D. 32. 33.
Fraxinus — D. 925. 986. — B. 110. 120.

Garrya — D. 940.
Georgina — D. 51.
Gleditschia — D. 858. 949.
Gossypium — D. 39. 66. — De. 105.

Hedera — D. 913. 4. 65.
Hibiscus — D. 827. 828.
Humulus — D. 36.
Hymenæa — D. 65.
Hypericum — D. 42.

Iasminum — D. 926.
Ilex — D. 848. 2.
Incarvillea — D. 935.
Iuglans — D. 962. 963. — De. 100. — B. 107. 109.
Iuniperus — D. 979. 981. 994.

Kœlreuteria — D. 838.
Kerria — D. 878.

Lactuca — D. 66.
Lagerstrœmia — D. 903.
Lappa — D. 66.
Larix — C. 93. 94.
Laurus — D. 937. 946. 26.
Ligustrum — D. 929. 930.
Lilium — D. 66.
Linaria — D. 34.
Lonicera — D. 916. 917. 918. 919.
Lupinus — C. 58.
Lycium — D. 46. 47.

Maclura — D. 950. 951.
Magnolia — D. 22. 23. 24.
Mahonia — D. 13.
Marsdenia — D. 37.
Medicago — D. 59.
Melia — 986.
Menispermum — D. 35.
Mentha — D. 66.
Moringa — B. 119.
Morus — D. 954. 956. 957. 958.
Musa — D. 74.
Myginda — D. 8.

Nerium — D. 932. 5.

Olea — D. 927.
Opuntia — D. 910.

Paliurus — D. 852.
Passiflora — D. 60.
Paulownia — D. 936.
Persica — D. 889.
Phœnix — D. 75. 76. 80.
Phoradendron — D. 985.
Photinia — D. 15.
Phragmites — D. 85.

Pinus — D. 984. 993. 995. 998. 999. — De. 96.
Pirus — D. 891. 892. 993. 894. 21. — B. 122.
Pittosporum — D. 939. — C. 95.
Platanus — D. 916. 959. 960. 961.
Poinciana — D. 873.
Populus — D. 964. 965. — De. 96.
Prunus — D. 883. 884. 885. 886. 895. 986. 18. 19. 20.
Pterocarpus — D. 860.
Punica — D. 900.

Quercus — D. 970. 971. 972. 973. 974. 975. 986. 11. — De. 99.

Rhamnus — D. 849. 850.
Rhododendron — D. 27.
Rhus — D. 853. 854. 855. 856. 955. — B. 118.
Ribes — D. 911. 912.
Ricinus — D. 62.
Robinia — D. 861.
Rosa — D. 874. 875. 876. 877. 16.
Rubus — D. 879. 880. 881. 882.
Ruscus — D. 69.
Ruta — D. 48.

Salix — D. 9. — De. 97. 98.
Sambucus — D. 921. — C. 92.
Sarothamnus — D. 870.
Sassafras — De. 101.
Secale — D. 86.
Sedum — D. 49.
Sida — D. 40.
Smilax — D. 68.
Solanum — D. 44. 45.
Sophora — D. 859.
Sorbus — B. 121.
Spiræa — D. 896. 897. 55.
Staphylea — D. 845.
Symphoricarpos — D. 920.
Syringa — D. 928.

Tamarix — D. 904. 905.
Tanacetum — D. 54.
Taxus — D. 996.
Tecoma — D. 934. — De. 103.
Terminalia — D. 909.
Thalictrum — D. 66.
Thuja — D. 980. 997.
Tilia — D. 829. 830. 831. — M. 89.

Ulex — D. 869.
Ulmus — D. 946. 947. — M. 90.

Vaccinium — D. 986.
Viburnum — D. 922. 923. 1.
Vitis — D. 839. 840. 841. 842. 843.

Wistaria — D. 857.

Yucca — D. 72. 73.

Zea — D. 87.
Zizyphus — D. 851.

Sect. 4. Hyalodidymæ Sacc.

Sporulæ ellipsoideæ, ovoideæ vel oblongæ, 1-septatæ, hyalinæ vel chlorinæ.

Clavis analytica generum.

§ Perithecia non rostrata.

† Perithecia areolis decoloratis plerumque innata, h. e. maculicola.

Ascochyta. Perithecia lenticularia, poro pertusa, minuta, plerumque phyllogena; sporulæ muticæ.

Robillarda. Perithecia *Ascochytæ;* sporulæ apice longe setigeræ.

†† Perithecia non maculicola.

A) Basidia (ubi adsunt) monospora.

Actinonema. Perithecia subiculo radiante arachnoideo adnata, phyllogena; sporulæ in subg. *Asteromidio* 2-pluriseptatæ.

Darluca. Perithecia subiculo destituta, sæpius uredinicola; sporulæ utrinque mucoso-apiculatæ.

Diplodina. Perithecia subiculo destituta, ramicola; sporulæ muticæ.

B) Basidia pleuro-pleiospora.

Cystotricha. Perithecia subhysterioideo-dehiscentia; sporulæ in basidiis bacillaribus articulatis pleurogenæ.

§§ Perithecia rostellata.

Rhynchophoma. Perithecia erumpentia vel subsuperficialia.

ASCOCHYTA Lib. Exs. p. minore parte, Sacc. Mich. I. p. 161 (Etym. *ascos* uter, et *chytos*, a *cheo* effundo, h. e. perithecium *sporulas* effundens). — Perithecia in partibus plerumque decoloratis foliorum vel ramulorum innata, membranacea, poro centrali pertusa, globoso-lenticularia. Sporulæ ovoideæ vel oblongæ, 1-septatæ, hyalinæ vel chlorinæ. — Nonnullæ species ab auctoribus sub *Ascochytæ* titulo venditatæ, quoad fructificationem verò indescriptæ, utpote quæ ad *Septoriæ* vel *Phyllostictæ* formas facile pertinentes, hic penitus omittuntur.

I. *In foliis Dicotyledonearum lignosarum.*

1. **Ascochyta Magnoliæ** Thüm. Contr. F. Litor. n. 342. — Peritheciis 2123
epiphyllis, sparsis vel subsolitariis, emersis, subhemisphæricis, epi-

dermide tectis, parvulis, nigris in maculis parvis arescendo candicantibus, plerumque sinuosis, cito laceratis et elabentibus; sporulis numerosis, ellipsoideis, utrinque angustato-rotundatis, medio septatis sed non constrictis, rectis, hyalinis, 7–8 ≃ 3.

Hab. ad folia emortua prostrata Magnoliæ grandifloræ, Monastero prope Aquileja in Italia bor.

2. **Ascochyta australis** Speg. F. Arg. Pug. II. n. 122. — Maculis epiphyllis, latis, 3–10 mill. diam., orbiculari-difformibus, arescentibus, griseo-fuscis, zona aurantio-fuliginea cinctis; peritheciis minutis, 90–100 μ. diam., lenticularibus, innatis; ostiolo parvulo perforatis, sporulis ellipticis, medio 1-septatis, subconstrictis, hyalinis, 8–10 ≃ 3–3½. 2124

Hab. in foliis Berberidis glaucæ in horto Collegii Argentini Buenos-Aires in Argentina.

3. **Ascochyta Emeri** Sacc. Mich. I. p. 163. — Maculis sæpius marginalibus, arescendo sordide albis, rufo-cinctis; peritheciis sparsis amphigenis, punctiformibus, lenticularibus, 110–120 μ. diam., pertusis; contextu minute parenchymatico fuligineo; sporulis oblongo-ellipsoideis, 9–15 ≃ 3–4, utrinque rotundatis, 1-septatis, leniter constrictis, hyalinis. 2125

Hab. in foliis Coronillæ Emeri in silva Montello Italiæ borealis.

4. **Ascochyta Siliquastri** Passer. Hedw. 1878, p. 172. — Peritheciis sparsis, exiguis, epidermidem minute pustulatim subelevantibus, membranaceis, fuscis; sporulis parvulis, oblongo-ellipticis, medio septatis, vix constrictis, hyalinis. 2126

Hab. in leguminibus adhuc pendulis Cercidis Siliquastri, Parma in Italia.

5. **Ascochyta leguminum** Sacc. Mich. I. p. 530. — Peritheciis gregariis subcutaneo-erumpentibus, lenticularibus, 120–130 μ. diam., late pertusis; contextu melleo-fuligineo; sporulis oblongis, utrinque obtusis, constricto-1-septatis, 11–15 ≃ 4, perfecte hyalinis. 2127

Hab. in leguminibus Cytisi Laburni in Gallia (Letendre, Roumeguère).

6. **Ascochyta Robiniæ** Sacc. et Sp. in Mich. I. pag. 163. — Maculis arescendo dealbatis, tenuiter fusco-marginatis; peritheciis sparsis punctiformibus, lenticularibus, 180 μ. diam., pertusis; sporulis oblongo-ellipsoideis, 10–15 ≃ 5–6, 1-septatis, non constrictis, hyalinis. 2128

Hab. in foliis Robiniæ Pseudacaciæ, Treviso et Gorizia

in Ital. bor., et in Germania. — An *Ascochyta Robiniæ* Lib. huc spectet, ignota fructificatione, latet.

7. **Ascochyta rosicola** Sacc. Mich. I. p. 164. — Maculis subcircularibus arescendo dealbatis, rufo-marginatis, epiphyllis: peritheciis punctiformibus, lenticularibus, pertusis; sporulis oblongis v. breve fusoideis, 8-10 ≃ 3, 1-septatis, non constrictis, utrinque 1-guttulatis, hyalinis. 2129

Hab. in pagina superiore foliorum Rosæ muscosæ, Selva in Italia boreali.

8. **Ascochyta Cratægi** Fuck. Enum. Fung. Nap. n. 345. — Peritheciis minimis, densissime dispositis, atris, conicis, in maculis fuscis angularibus sitis; sporulis..... indescriptis. 2130

Hab. in pag. inf. foliorum Cratægi Oxyacanthæ in Rhenogovia. — «An vera *Ascochyta?*».

9. **Ascochyta piricola** Sacc. Fungi Ven. Ser. II. p. 311. — Maculis albo-griseis, nitidis; peritheciis lenticulari-punctiformibus latiuscule pertusis; sporulis oblongis, 1-septatis, 2-guttulatis, dilute olivaceis, 10 ≃ 2. 2131

Hab. in pag. sup. foliorum Piri communis in agro Veneto. — Spermogonium *Leptosphæriæ Lucillæ.*

10. **Ascochyta chlorospora** Speg. Sacc. Mich. I. p. 483. — Peritheciis subepidermicis maculis griseis, rotundis innatis, lenticularibus, minutis, 80-90, ostiolo latiusculo pertusis; sporulis ellipticis, medio 1-septato-constrictis, dilute chlorinis, 10-12 ≃ $3^1/_2$. 2132

Hab. in foliis languidis Pruni domesticæ, Belluno in Italia boreali.

11. **Ascochyta Philadelphi** Sacc. et Sp. Mich. I. p. 165. — Maculis subcircularibus, arescendo ochraceis; peritheciis punctiformibus, 200 μ. diam., quandoque subconcentrice dispositis, pertusis; sporulis constricto-didymis, utrinque rotundatis, 8-11 ≃ 4-$4^1/_2$ hyalinis. 2133

Hab. in foliis Philadelphi coronarii, Conegliano in Italia boreali (Spegazzini).

12. **Ascochyta metulispora** B. et Br. Ann. N. H. n. 1730. — Maculis orbicularibus, brunneis; peritheciis minutis, pallidis; sporulis utrinque attenuatis, metuliformibus. 2134

Hab. in foliis Fraxini in Scotia.

13. **Ascochyta Orni** Sacc. et Sp. Mich. I. p. 168. — Maculis nullis v. obsoletis; peritheciis amphigenis, globoso-lenticularibus, 200 μ. diam., pertusis, prominulis; sporulis ovato-fusoideis, 10-11 ≃ 2-$2^1/_2$, 1-septatis, non v. rarius leniter constrictis, nubilose hyalinis. 2135

Hab. in foliis Fraxini Orni, Conegliano in Italia boreali (Spegazzini).

14. **Ascochyta Ligustri** Sacc. et Sp. Mich. I. p. 165. — Maculis versiformibus, arescendo subochraceis; peritheciis lenticularibus, punctiformibus, 200 μ. diam., olivaceo-fuscis; sporulis ovoideis v. oblongo-ellipsoideis, utrinque rotundatis, interdum curvulis, 1-septatis, ad septum leniter constrictis, 8-10 ≃ 2-3, hyalinis. 2136

Hab. in foliis Ligustri vulgaris, Costa (Vittorio) in Italia boreali (Spegazzini).

15. **Ascochyta Viburni** (Roum.) Sacc. *Phyllosticta Viburni* Roum. F. Gall. n. 2036. — Maculis vagis, demum pallentibus, fusco-purpureo-marginatis; peritheciis epiphyllis, globoso-lenticularibus, pertusis; sporulis ellipsoideo-oblongis, utrinque rotundatis, 10-12 ≃ 3,5-4, 1-septatis leniterque constrictis, hyalinis. 2137

Hab. in foliis subvivis Viburni Opuli, Malmedy in finibus Galliæ et Germaniæ.

16. **Ascochyta Lantanæ** Sacc. Mich. I. p. 162. — Maculis subcircularibus sinuosisve arescendo dealbatis, anguste fusco-marginatis; peritheciis punctiformibus, epiphyllis sparsis, pertusis; sporulis anguste fusoideis, 11 ≃ 2, 1-septatis, non constrictis, hyalinis. 2138

Hab. in foliis Viburni Lantanæ, Selva in Ital. bor. — Cum *Septoria Viburni* West. non comparanda.

17. **Ascochyta Tini** Sacc. Mich. I. p. 170. — Maculis vagis arescendo ochraceis, margine subconcolori; peritheciis sparsis, paucis, punctiformibus, lenticularibus, 60-70 μ. diam., pertusis, contextu laxe tenui-celluloso, ferrugineo; sporulis fusoideis, 6-10 ≃ 3, 1-septatis, non v. vix constrictis, dilute olivaceis (rarissime 2-septatis). 2139

Hab. in pag. sup. foliorum Viburni Tini, Selva, Villa Vicentina in Ital. bor. (Sacc. Bolle), Coimbra in Lusitania (Ferreira).

18. **Ascochyta Sambuci** Sacc. Mich. I. p. 168. — Maculis vagis arescendo candicantibus; peritheciis parcis, punctiformibus, pertusis; sporulis fusoideis, 15-18 ≃ 3-3½, 1-septatis, non constrictis, olivaceis. 2140

Hab. in pag. sup. foliorum Sambuci nigræ, Selva in Italia boreali, et in Gallia.

19. **Ascochyta sarmenticia** Sacc. Mich. II. p. 110. — Maculis subrotundo-angulosis, albicantibus, fusco-cinctis; peritheciis epiphyllis, sparsis, lenticularibus, velatis, ⅙ mill. diam., contextu laxe parenchymatico, ochraceo; sporulis oblongis clavulatisque, constricto-didymis, 20-25 ≃ 8, nubilosis, hyalinis. 2141

Hab. in foliis languidis Loniceræ Caprifolii pr. Rouen in Gallia (Letendre).

20. **Ascochyta tenerrima** Sacc. et Roum. in Mich. II. p. 622. — Maculis subcircularibus olivaceis, brunneo-marginatis; peritheciis epiphyllis, lenticularibus 130 μ. diam., pertusis, contextu areolato tenerrimo; sporulis oblongis, utrinque rotundatis, medio subconstrictis obsoleteque septatis, 9–11 ≃ 3–4, hyalinis. 2142

Hab. in foliis Loniceræ tartaricæ in Arduennis (Libert). — *Asc. sarmenticia* Sacc. ab hac valde differt.

21. **Ascochyta Periclymeni** Thüm. Contr. Myc. Lus. n. 606. — Peritheciis amphigenis, gregariis sed paucis, mediis, hemisphærico-emersis, aterrimis, in maculis exaridis plus minusve orbiculatis, in foliorum pagina superiore ochro-griseis, sordide fusco cinctis, in pagina inferiore sordide ochraceo-fuscis; sporulis cylindrico-ellipsoideis, utrinque obtusato-acutatis, bicellularibus, ad septa subconstrictis, rectis vel minime arcuatis, hyalinis, 10–11 ≃ 3–4. 2143

Hab. in foliis vivis et languidis Loniceræ Periclymeni pr. Coimbra in Lusitania (Moller).

22. **Ascochyta Weigeliæ** Sacc. et Sp. Mich. I. pag. 170. — Maculis epiphyllis, angulosis, arescendo candicantibus; peritheciis punctiformibus, lenticularibus, 100–150 μ. diam., pertusis, contextu minute parenchymatico, dilute fuligineo; sporulis oblongis, 12–14 ≃ 3–4, 1-septatis, subconstrictis, minute 4-guttulatis, chlorinis. 2144

Hab. in foliis Weigeliæ roseæ, Conegliano in Italia bor. (Spegazzini).

23. **Ascochyta Paliuri** Sacc. Mich. I. p. 166. — Maculis variis, latis, arescendo fusco-ochraceis, vix marginatis; peritheciis epiphyllis, sparsis, punctiformibus, initio epidermide velatis, lenticularibus, 100 μ. diam., latiuscule pertusis, laxe cellulosis, fuligineis; sporulis oblongis, utrinque obtuse rotundatis, 7–9 ≃ 3–3½, 1-septatis, leniter constrictis, obsolete guttulatis, hyalinis. 2145

Hab. in foliis Paliuri aculeati, Selva et Conegliano in Italia boreali.

24. **Ascochyta cornicola** Sacc. Mich. I. p. 169. — Maculis subcircularibus arescendo dealbatis rufo-cinctis; peritheciis punctiformibus, lenticularibus, 80 μ. diam., pertusis; sporulis oblongo-ellipsoideis, 7–10 ≃ 3½–4, 1-septatis, non constrictis, dilute olivaceis. 2146

Hab. in foliis Corni sanguineæ, Selva in Ital. bor.

25. **Ascochyta aucubicola** Winter. Cont. Myc. Lus. p. 795. — Peritheciis in macula arescendo-albida, fusco-cincta, irregulari, usque 2147

15 μ. lata, epiphyllis, sparsis, lenticularibus, demum collabascentibus, atris, 80–90 μ. diam.; sporulis oblongis, uniseptatis, non constrictis, hyalinis, cumulatis pallide fuscescentibus, 7–9 ≃ 2,5.

Hab. in foliis vivis Aucubæ japonicæ in hortis Coimbra in Lusitania.

26. **Ascochyta Aucubæ** Sacc. et Sp. Mich. I. p. 167. — Maculis nul- 2148
lis; peritheciis gregariis subgloboso-lenticularibus, initio tectis, 250 μ. diam., prominulis, pertusis, contextu parenchymatico fuligineo; sporulis fusoideo-oblongis, 8–12 ≃ 2–2½, 1-septatis, non v. vix constrictis, nubilose hyalinis.

Hab. in foliis dejectis Aucubæ japonicæ, Conegliano in Ital. bor. (Spegazzini). — Var. β. **Brunaudiana** Sacc. F. Gall. n. 2174: maculis expallentibus, lineâ nigra circumscriptis; peritheciis 60–70 μ. diam.; sporulis 8 ≃ 2,5, subhyalinis, 1-septatis, non constrictis. In foliis Aucubæ japonicæ, Saintes in Gallia (Brunaud).

27. **Ascochyta maculans** Fuck. Symb. Myc. p. 386. — Peritheciis 2149
minutis, conicis, in acervulos minutos aggregatis, atris, in macula fusca.

Hab. in foliis vivis Hederæ Helicis, Eberbach in Germania, et Treviso in Ital. bor. — Sporulæ ignotæ, hinc dubia species.

28. **Ascochyta ampelina** Sacc. Mich. I. p. 168. — Maculis vagis an- 2150
gulosis arescendo candicantibus, fusco-marginatis, epiphyllis; peritheciis sparsis punctiformibus lenticularibus, 70 μ. diam., pertusis; sporulis ex oblongo fusoideis, 10 ≃ 3, 1-septatis non constrictis, dilute olivaceis (rarissime, 12–15 ≃ 3–3½, 2–3-septatis).

Hab. in foliis Vitis viniferæ, Selva. — Var. β. **cladogena**: peritheciis majoribus, 150–200 μ. diam.; sporulis quoque paullo longioribus, 15 ≃ 3. In ejusdem sarmentis vivis, Conegliano in Ital. bor. (Spegazzini).

29. **Ascochyta Ellisii** Thüm. Pilze des Weinstockes p. 190. — Pe- 2151
ritheciis hypophyllis, dense gregariis, sine ordine dispositis, distinctis, prominulis, conico-hemisphæricis, liberis, opaco-nigris in maculis orbicularibus, numerosis, subparvis, limitatis sed non cinctis, dilute fuscis, subexaridis; sporulis globosis vel ovatis vel ellipsoideis, simplicibus (semper?) episporio crasso, levi, hyalinis, utrinque rotundatis, numerosis, 6–8 ≃ 5–6.

Hab. in foliis vivis Vitis Labruscæ, New Jersey in Amer. septentr. (Ellis). — Si sporulæ jugiter continuæ, ad *Phyllostictam* referenda species.

30. **Ascochyta bombycina** Penz. et Sacc. F. Agrum. Contr. II. p. 17. — 2152

Foliicola, maculis foliorum vivorum flavescentibus insidens; perithecis minutissimis, 60–70 μ. diam., sphæroideis, haud compressis, pariete brunneo, tenui, contextu parenchymatico; sporulis breviter cylindricis, utrinque obtusis, rotundatis, uniseptatis, medio paullum constrictis, hyalinulis, 8–9,5 ≃ 3–4,5.

Hab. in foliis languentibus Limoniæ australis, Mortola apud Ventimiglia in Italia bor.

31. **Ascochyta Hesperidearum** Penz. in Sacc. Mich. II. p. 445 et F. it. n. 1184. — Maculis nullis; peritheciis amphigenis, sparsis vel gregariis, subglobosis, nigris, erumpentibus, 180–200 μ. diam., apice pertusis; sporulis oblongo-fusoideis, hyalinis, 1-septatis, medio haud constrictis, 11–15 ≃ 3–4. 2153

Hab. in foliis languidis Limoniæ australis, Cattajo in Ital. bor. (Penzig), et in foliis Citri Limonum, Licata in Ital. merid. (Beltrani), sociis *Beltrania rhombica, Volutella fusarioide* et *Septoria sicula.*

32. **Ascochyta Citri** Penz. in Sacc. Mich. II. p. 445 et in F. ital. t. 1183. — Maculis versiformibus candicantibus, linea atro-rufa circumscriptis; peritheciis numerosis, sparsis, punctiformibus, 150–180 μ. diam., brunneis, contextu filamentoso; sporulis ellipticis, continuis vel 1-septatis, medio non constrictis, 6,5–9 ≃ 3–3,5, pallide brunneolis. 2154

Hab. in foliis Citri Limonum Risso, Cattajo, Padova (Penzig), S. Terenzo (Gibelli) in Italia.

33. **Ascochyta Lorentzii** Sp. Fungi Arg. Pug. III. n. 124. — Maculis epiphyllis, orbicularibus, 2–3 mill. diam., cinereis, determinatis, zona cinereo-fuscescente, latiuscula cinctis; peritheciis centralibus, paucis, minutis, 90–100 μ. d., lenticularibus, parenchymati innatis, tenui-membranaceis, ostiolo parvulo pertusis, contextu parenchymatico, olivaceo-fuligineo; sporulis ellipticis, utrinque obtusiusculis, medio 1-septatis, non v. vix constrictis, 10–12 ≃ 4–4,5, hyalinis. 2155

Hab. ad folia viva Cnicothamni Lorentzii in dumetis de Tucuman Argentinæ.

34. **Ascochyta Paulowniæ** Sacc. et Brun. F. Gall. n. 2241. — Maculis epiphyllis variis, fusco-cinerescentibus; peritheciis lenticularibus, pertusis, 90 μ. diam.; sporulis fusoideis, 14–18 ≃ 3, 1-septatis, vix constrictis, 4-guttulatis, dilute olivaceis. 2156

Hab. in foliis Paulowniæ, Saintes in Gallia, sociâ *Phyllosticta Paulowniæ* Sacc. (Brunaud).

35. **Ascochyta Tweediana** Penz. et Sacc. F. Mort. n. 40, tav. V. fig. 22. 2157

— Maculis subnullis; peritheciis gregariis, hypodermicis, minutis, lenticularibus, contextu tenui parenchymatico nigro, 140–150 μ. diam.; sporulis oblonge ellipticis, utrinque rotundatis, loculis sæpe inæqualibus, ad septum haud constrictis, 6,5–8 ≃ 3–3,5, dilute fuligineis.

Hab. in capsulis siccis Bignoniæ Tweedianæ, Mortola apud Ventimiglia in Italia (O. Penzig).

36. **Ascochyta Winteri** Sacc. *Ascochyta Tweediana* Winter Contr. Myc. Lus. n. 796, nec Sacc. et Penz. — Peritheciis in macula exarida, pallide grisea, late fusco-purpureo cincta, rotundata seu irregulari, 4–20 mill. lat., sparsis, epiphyllis, punctiformibus, poro pertusis, membranaceis, fusco-atris, 50–60 μ. lat.; sporulis oblongis seu bacillaribus, utrinque late rotundatis, medio vix vel perparum constrictis, hyalinis, spurie uniseptatis, 5 ≃ 1,5. 2158

Hab. in foliis vivis Bignoniæ Tweedianæ, Coimbra in Lusitania.

37. **Ascochyta Puiggarii** Speg. Fung. Arg. Pug. IV. n. 302. — Maculis latissimis, determinatis, fere totum folium occupantibus, superne candidis, inferne albo-pallescentibus; peritheciis epiphyllis, minutis, 70–80 μ. d., numerosissimis, dense sparsis, primo tectis, dein erumpentibus, subglobosis, atris, tenui-membranaceis, contextu sinuoso parenchymatico, olivaceo; sporulis ellipticis, utrinque obtuse rotundatis, medio 1-septatis, non constrictis, 7–8 ≃ 3, dilute fusco-chlorinis. 2159

Hab. ad folia viva Myrtaceæ cujusdam in Brasilia meridionali pr. Apiahy (Doct. J. Puiggari).

38. **Ascochyta Cherimoliæ** Thüm. Contr. Myc. Lusit. n. 607. — Peritheciis amphigenis, pertusis, primo punctiformibus, postremo lenticularibus, gregariis, mediis, fusco-atris in maculis irregularibus arescendo albicantibus vel pallidissime ochraceo-albidis, mox dilaceratis, subtus dilute ochraceis, late fusco-purpureo cinctis; sporulis longe ellipsoideis vel cylindraceis, utrinque subacutatis, rectis, medio plerumque septatis sed non constrictis, numerosissimis, hyalinis, 7 ≃ 2–2,5. 2160

Hab. ad folia viva Anonæ Cherimoliæ in horto botanico Coimbra in Lusitania.

39. **Ascochyta Unedonis** Sacc. Mich. I. p. 530. — Maculis plerumque epiphyllis variis, arescendo cinerescentibus, rufo-cinctis; peritheciis gregariis, velatis, lenticularibus, 80 μ. diam. pertusis; sporulis oblongis, 1-septatis, non constrictis, 7–9 ≃ 2½, olivaceis. 2161

Hab. in foliis Arbuti Unedonis prope Saintes in Gallia (Brunaud).

40. **Ascochyta Elæagni** Sacc. Mich. II. p. 109. — Maculis epiphyllis marginalibus, ochraceo-marginatis; peritheciis punctiformi-lenticularibus, pertusis, 80–100 μ. diam., laxe melleo-cellulosis; sporulis fusoideis, 8–10 ≃ 3½–4, 1-septatis, dilute olivaceis. 2162

Hab. in foliis Elæagni argenteæ, Saintes in Gallia (Brunaud).

41. **Ascochyta Oreodaphnes** Sacc. Mich. II. p. 538. — Maculis amphigenis ovato-oblongis, expallentibus, atro-cinctis; peritheciis epiphyllis, ⅙ mill. diam., globoso-depressis, epidermide denique fissa velatis; sporulis oblongis, apice obtusioribus, constricto-1-septatis, 2–4-guttatis, semper hyalinis, 15–16 ≃ 7–8. 2163

Hab. in foliis languidis Oreodaphnes fœtentis in horto botanico, Padova in Italia boreali.

42. **Ascochyta Cephalanthi** Ell. et Everhart, in litt. — Maculis orbicularibus, 3–5 mill. diam., brunneo-albescentibus, margine angusto, subelevato; peritheciis epiphyllis, paucis irregulariter distributis, depresso-hemisphæricis, parenchymate folii innatis, 60–75 μ. diam.; sporulis vel anguste ellipticis vel ovato-oblongis, pallide brunneis, uniseptatis, 7–9 ≃ 2,5–3. 2164

Hab. in foliis Cephalanthi occidentalis, Illinois in Amer. bor. (Earle).

43. **Ascochyta Calycanthi** Sacc. et Sp. Mich. I. p. 162. — Maculis arescendo albicantibus, variis; peritheciis gregariis lenticularibus, punctiformibus, 200 μ. diam., pertusis, atris; sporulis oblongis v. oblongo-ellipsoideis, 11–14 ≃ 2½–3, utrinque obtusiusculis, 1-septatis, non constrictis, hyalinis v. nubilosis. 2165

Hab. in foliis Calycanthi floridi, Conegliano in Italia borealis (Spegazzini).

44. **Ascochyta Oleandri** Sacc. et Sp. Mich. I. p. 162. — Maculis albis fusco-cinctis; peritheciis sparsis amphigenis, lenticularibus, 200 μ. diam., pertusis, dilute fuligineis; sporulis fusoideo-oblongis, 11–15 ≃ 2–2½, 1-septatis, non v. vix constrictis nubilosis, hyalinis. 2166

Hab. in foliis Nerii Oleandri, Conegliano in Italia boreali (Spegazzini), Coimbra in Lusitania (Moller).

45. **Ascochyta Garryæ** Sacc. Mich. II. p. 108. — Maculis epiphyllis variis, atro-cinctis; peritheciis paucis lenticularibus, 100–120 μ. diam.; sporulis fusoideis, 8–10 ≃ 3, chlorinis, constricto-1-septatis. 2167

Hab. in foliis Garryæ ellipticæ, Saintes in Gallia (Brunaud).

46. **Ascochyta ulmella** Sacc. Mich. I. p. 169. — Maculis hypophyllis arescendo expallentibus, margine concolori; peritheciis sparsis, paucis, punctiformibus, lenticularibus, pertusis; sporulis breve fusoideis, rectis, 8–10 ≃ 3, 1-septatis, non v. vix constrictis, dilute olivaceis. 2168

Hab. in foliis Ulmi campestris, Selva in Italia boreali.

47. **Ascochyta buxina** Sacc. Mich. I. p. 169. — Maculis indeterminatis arescendo expallentibus; peritheciis sparsis, punctiformibus; sporulis ovato-fusoideis 8 ≃ 2½, 1-septatis, non constrictis, dilute olivaceis. 2169

Hab. in foliis Buxi sempervirentis, Selva in Ital. bor.

48. **Ascochyta limbalis** Sacc. Mich. I. p. 161. — Maculis vagis, sæpe marginalibus, arescendo candidis, zona nigrescente cinctis; peritheciis lenticularibus, pertusis; sporulis oblongo-cylindraceis, 15 ≃ 2, utrinque obtusiusculis, 1-septatis, vix constrictis, 4-guttulatis, hyalinis. 2170

Hab. in pag. super. foliorum Buxi sempervirentis, Selva in Ital. bor., Coimbra in Lusitania. — Huc *Depazea buxicola* Sacc. Myc. Ven. p. 193. non Friesii, quæ *Phyllosticta limbalis* Pers.

49. **Ascochyta carpinea** Sacc. Mich. I. p. 170. — Maculis subcircularibus sinuosisve, arescendo ochraceis, margine subconcolori; peritheciis sparsis, raris, punctiformibus, lenticularibus, 100 μ. diam., pertusis; sporulis oblongo-fusoideis, 10–11 ≃ 2½, 1-septatis, non constrictis, dilute olivaceis. 2171

Hab. in pag. sup. foliorum Carpini Betuli, Covolo in Italia boreali.

50. **Ascochyta Coryli** Sacc; et Sp. Mich. I. p. 162. — Maculis variis v. subcircularibus, arescendo albicantibus; peritheciis lenticularibus, 200 μ. diam., pertusis, fuscis; sporulis oblongo-ellipsoideis v. subcylindraceis, 10 ≃ 2½, 1-septatis, non constrictis, rectis curvulisve, hyalinis. 2172

Hab. in foliis Coryli Avellanæ, Costa pr. Vittorio in Italia boreali (Spegazzini).

51. **Ascochyta Quercus** Sacc. et Sp. in Mich. I. p. 162. — Maculis versiformibus arescendo albicantibus; peritheciis sublenticularibus, punctiformibus, 80–90 μ. diam.; sporulis oblongo-ellipsoideis, 7–12 ≃ 3–4½, utrinque obtusis, 1-septatis, ad septum plus minusve constrictis, hyalinis. 2173

Hab. in foliis quercinis, Susegana in Ital. bor. (Spegazzini).

52. **Ascochyta Quercuum** (Cooke) Sacc. *Sphærellopsis quercuum* 2174

Cooke in Grev. XII, p. 23. — Hypophylla, sparsa; peritheciis subglobosis, subsuperficialibus, minimis, 150 μ. diam., fuscis; sporulis lanceolatis, uniseptatis, hyalinis 16 ≃ 4.

Hab. in foliis Quercus virentis, Darien in Georgia.

53. **Ascochyta? Caricæ** Rabenh. in Bot. Zeit. 1851, p. 455. — Maculis rufo-brunneis; peritheciis innatis, gelatina aureo-coccinea; sporulis clavato-polymorphis granulis et guttulis oleosis rotundis farctis. 2175

Hab. in foliis Fici Caricæ, Pola in Istria (Biasoletto).

54. **Ascochyta populina** Sacc. Mich. I. p. 168. — Maculis variis, angulosis, arescendo candidis, atro-cinctis; peritheciis punctiformibus, sparsis; sporulis cylindraceo-fusoideis, 10-11 ≃ $1^1/_2$-2, rectis, 1-septatis, non v. vix constrictis, e hyalino olivaceis. 2176

Hab. in pag. sup. foliorum Populi nigræ, Selva in Ital. bor.

55. **Ascochyta Tremulæ** Thüm. Fungi Austr. n. 82. — Peritheciis hypophyllis, subdensis, minutissimis, punctiformibus, nigris, globosis, semiimmersis in maculis plus minusve orbiculatis, exarido-griseis, parvis, anguste et distincte fusco-cinctis, in pagina superiore albo-griseis; sporulis cylindricis vel longe ellipsoideis, utrinque subrotundatis, medio uniseptatis sed non constrictis, achrois, 9-10 ≃ 3. 2177

Hab. in foliis vivis Populi Tremulæ, Krems in Austr. inf. (de Thümen).

56. **Ascochyta Martianoffiana** Thüm. Pilzfl. Sibir. n. 616. — Peritheciis magnis, subsolitariis, emersis, conoideis, aterrimis, epiphyllis in maculis plus minusve orbicularibus, ochraceo-griseis, late fusco-marginatis, subtus fusco-griseis; sporulis bicellularibus, inæquali-ovoideis vel fere subreniformibus, cellula una semper majore quam altera, utrinque subacutatis, pallidissime fuligineo-cinereis, 10 ≃ 4. 2178

Hab. in foliis vivis Salicis pyrolæfoliæ, Samodourowka in Sibiria.

II. *In ramulis Dicotyledonearum lignosarum.*

57. **Ascochyta ventricosa** Penz. et Sacc. Funghi Mort. n. 41. — Peritheciis laxe gregariis, minutis, innato-erumpentibus, sphæroideo-lenticularibus, depressis, contextu tenui membranaceo, brunneo, 130-140 μ. diam.; sporulis breviter ellipticis vel ovoideis, ventricosis, septo medio valde manifesto, ad septum haud constrictis, utrinque rotundatis, dilute brunneis, 7-9 ≃ 4,5-6. 2179

Hab. in ramulis siccis Acaciæ sp. (sociâ *Diplodia Acaciæ*

. Penz. et Sacc.) et Passifloræ hybridæ, Mortola in Ital. bor. (O. Penzig).

58. **Ascochyta Laburni** Sacc. Mich. I. 530. — Peritheciis gregariis, epidermide velatis, 120 μ. diam., subglobosis, pertusis contextu fuligineo; sporulis cylindraceis, utrinque rotundatis, 10–12 ≃ 2, 1-septatis, non constrictis, viridulis. 2180

Hab. in ramulis Cytisi Laburni, Rouen in Gallia (Letendre).

59. **Ascochyta densiuscula** Sacc. et Malbr. Sacc. Mich. II. p. 621. — Peritheciis dense gregariis, subcutaneis, punctiformibus, nigris; sporulis anguste oblongis, utrinque obtusiusculis, medio septatis leniterque constrictis, 9–12 ≃ 3,5, hyalinis. 2181

Hab. in ramulis Sarothamni scoparii, Rouen in Gallia (Malbranche).

60. **Ascochyta berberidina** Sacc. Mich. I. p. 530. — Peritheciis sparsis, epidermide velatis, 100 μ. diam., lentiformibus, pertusis; sporulis fusoideis, 1-septatis, non constrictis, 8–11 ≃ $2^1/_2$, luteolis. 2182

Hab. in ramulis Berberidis vulgaris, Rouen in Gallia (Letendre).

61. **Ascochyta rufo-maculans** Berk. Outl. p. 320. — Maculis orbicularibus rufo-brunneis; peritheciis emersis, subliberis concoloribus; sporulis oblongis, continuis («semper?»), medio constrictis, 15–20 μ. longis. 2183

Hab. in racemis Vitis viniferæ in Britannia.

62. **Ascochyta Tecomæ** Sacc. Mich. I. p. 168. — Maculis indeterminatis candicantibus, cladogenis; peritheciis gregariis punctiformibus globoso-lenticularibus, 90–100 μ. diam., pertusis, initio epidermide velatis, dein erumpentibus; sporulis breve fusoideis, 8–10 ≃ $2^1/_2$–3, rectis curvulisve, 1-septatis, non constrictis dilute olivaceis. 2184

Hab. in ramulis nondum emortuis Tecomæ radicantis, Conegliano in Italia boreali (Spegazzini).

63. **Ascochyta scandens** Sacc. Mich. I. p. 530. — Peritheciis dense gregariis, globoso-lenticularibus, subcutaneo-erumpentibus, 70–80 μ. diam., pertusis, contextu parenchymatico circa ostiolum multo densiore; sporulis fusoideis, 10 ≃ 4, 1-septatis, non constrictis, chlorino-hyalinis. 2185

Hab. in sarmentis Hederæ Helicis, Saintes in Gallia (Brunaud).

64. **Ascochyta carthagenensis** Sacc. Mich. II. p. 144. — Maculis cladogenis vagis, albescentibus; peritheciis gregariis, lenticularibus, 2186

initio velatis, $^1/_{10}$ mill. diam., pertusis; sporulis oblongis, utrinque obtusiusculis, 7–9 ≃ 3–$3^1/_2$, constricto-1-septatis, chlorinis.

Hab. in ramulis Manioth carthagenensis in Carolina (Ravenel).

III. *In Dicotyledoneis herbaceis.*

65. **Ascochyta patagonica** Sp. F. Arg. Pug. II. n. 123. — Peritheciis 2187
sparsis, subepidermicis, prominulis, minutis, 80–90 μ. d., lenticulari-hemisphæricis, ostiolo parvulo impresso pertusis, membranaceis; contextu parenchymatico, atro-fuligineo; sporulis cylindraceo-ellipticis, primo granuloso-farctis, continuis, dein 1-septatis, non v. vix constrictis, loculis non v. uniguttulatis, hyalinis, 8–10 ≃ 3–4.

Hab. in petiolis putrescentibus Anemonis sphænophyllæ, prope el Rio Negro in Patagonia.

66. **Ascochyta clematidina** Thüm. Pilzfl. Sibir. n. 619. — Peritheciis 2188
epiphyllis, submagnis, emersis, dense gregariis, hemisphæricis, basi epidermide late cinctis, nigris in maculis nullis v. obsoletis, ochraceis, irregularibus, subzonatis, vix arescentibus; sporulis late fusoideis vel subellipsoideis, utrinque obtusatis, medio septatis, dilute fuligineo-griseis, 16–18 ≃ 6–7.

Hab. in foliis vivis Clematidis glaucæ, Minussinsk in Sibiria.

67. **Ascochyta Hellebori** Sacc. F. Ven. Ser. II. sub n. 28 pag. 310, 2189
Mich. I. p. 169. — Maculis epiphyllis mediocribus, angulosis, albicantibus, atro-limbatis; peritheciis sparsis, punctiformi-lenticularibus, poro latiusculo apertis; sporulis breve fusoideis, 8 ≃ $1^3/_4$–2, 1-septatis, viridulis.

Hab. in foliis languidis Hellebori viridis in Italia boreali, socio statu ascophoro: *Leptosphæria Lathonia.*

68. **Ascochyta Trollii** Thüm. Pilzfl. Sibir. n. 618. — Peritheciis epi- 2190
phyllis, sparsis, minutissimis, semiimmersis, punctiformi-conicis, nigris in maculis irregularibus, arescendo albicantibus, amphigenis, fusco-nigro marginatis; sporulis ellipsoideis, utrinque obtusiusculis, uniseptatis, 16 ≃ 7, hyalinis, episporio subcrasso.

Hab. in foliis vivis Trollii asiatici in subalpinis pr. fluvium Baraksan in Sibiria.

69. **Ascochyta Aquilegiæ** (Roum. et Pat.) Sacc. *Phyllosticta Aquile-* 2191
giæ Roum. et Pat. Rev. Myc. V. p. 28. — Maculis epiphyllis, cinereis, rotundatis vel ovalibus, 0,5-1 μ. diam., brunneo-cinctis marginalibus; peritheciis numerosis, centralibus, ovoidalibus, brun-

neis, centro pertusis et depressis; sporulis brunneis, bilocularibus, loculis inæqualibus, subinde curvatis.

Hab. in foliis Aquilegiæ vulgaris, Malmedy in Arduennis.

70. **Ascochyta Nymphææ** Passer. Hedw. 1877, p. 120. — Perithe- 2192
ciis in maculis exaridis luteo-marginatis, immersis, vix pustulatim prominulis; sporulis oblongo-ellipticis, simplicibus, hyalinis.

Hab. in foliis Nymphææ albæ, Parma et Aquileja in Italia, et Nymphææ capensis, Coimbra in Lusitania. — Si sporulæ jugiter continuæ, ad *Phyllostictam* species referenda est.

71. **Ascochyta Violæ** Sacc. et Sp. Sacc. Mich. I. p. 163. — Maculis 2193
arescendo dealbatis, variis; peritheciis gregariis, globoso-lenticularibus, 180-200 μ. diam., pertusis, contextu parenchymatico, circa ostiolum condensato, fuligineo; sporulis breve fusoideis, 15-18 $\simeq$ $3^1/_2$,-4, 1-septatis, non constrictis hyalinis.

Hab. in foliis Violæ odoratæ, Selva et Conegliano in Italia boreali.

72. **Ascochyta Armoraciæ** Fuck. Symb. myc. p. 388, *Septoria Armo-* 2194
raciæ Oud. Aanwinsten fl. myc. v. Nederland. p. 5 (1875-76). — Peritheciis conicis, atris, in macula pallescente sparsis; sporulis oblongis, obtusis, 1-septatis.

Hab. in foliis Armoraciæ rusticanæ in Rhenogovia, Italia bor., Britannia et Hollandia.

73. **Ascochyta Brassicæ** Thüm. Contr. Myc. Lusit. n. 602. — Peri- 2195
theciis densissime gregariis, epiphyllis, conicis, prominulis, mediis, fusco-atris in maculis sinuosis, non marginatis, sordide ochraceo-griseis; sporulis fusiformibus, rectis, utrinque acutatis, medio uniseptatis, bi-quadri grosse nucleatis, achrois, 15-16 $\simeq$ 3-4.

Hab. in foliis vivis Brassicæ oleraceæ in Lusitania (Moller).

74. **Ascochyta pisicola** (Berk.) Sacc. *Depazea pisicola* Berk. in Cur- 2196
rey on the fructif. of simple Sphæriæ p. 334. — Peritheciis minutis, nigris in maculis rotundis pallidis, marginatis, sæpe confluentibus; sporulis hyalinis, ellipticis, 1-septatis vel continuis, 10-13 μ. longis.

Hab. in fructibus (?) Pisi in Britannia. — «An diversa ab *Asc. Pisi* Lib.?»

75. **Ascochyta Pisi** Lib. Exs. n. 12. *Sphæria* (Depazea) *concava* 2197
Berk. Ann. N. H. n. 194, t. XI. f. 3, *Zythia rabiei* Pass., *Septoria leguminis* β. *Pisi* Kickx, *Ascospora Pisi* Fuck. — Maculis subrotundis, luteis, brunneo-marginatis; peritheciis centralibus

brunneis, ostiolo rotundo pertusis, contextu perithecii e cellulis angulosis 5–7 μ. diam.; cirris brevibus crassis, demum confluentibus, fusco-rubellis, demum expallescentibus; sporulis oblongis, uni-septatis, medio constrictis, 14–16 ≃ 4–6, nucleolatis, hyalinis.

Hab. in foliis caulibusque leguminum Phaseoli, Pisi, Ciceris in Belgio, Britannia, Italia, Lusitania et Germania.

76. **Ascochyta Phaseolorum** Sacc. Mich. I. p. 164. — Maculis indeterminatis, arescendo ochraceis; peritheciis epiphyllis globoso-lenticularibus, 100 μ. diam., pertusis; sporulis oblongis constricto-1-septatis, 10 ≃ 3, 2-guttulatis, hyalinis. 2198

Hab. in foliis Phaseoli vulgaris, Selva in Ital. bor.

77. **Ascochyta Orobi** Sacc. Mich. I. pag. 161. — Maculis arescendo dealbatis, sinuosis, fusco-cinctis; peritheciis punctiformibus, lenticularibus, 100 μ. diam., late pertusis; sporulis constricto-biloculariibus, oblongis, utrinque obtusis, 15–16 ≃ 4½–6, guttulatis, hyalinis. 2199

Hab. in foliis Orobi verni et lathyroidis in silva Montello Ital. bor. et prope Minussinsk in Sibiria. — Huc spectat *Septoria Orobi* Pass. in Rabh. F. E. n. 2256 (Aprili 1877).

78. **Ascochyta Vulnerariæ** Fuck. Symb. myc. p. 387. — Peritheciis hemisphæricis, aterrimis, in macula purpurascenti. 2200

Hab. in foliis radicalibus adhuc vivis Anthyllidis Vulnerariæ in Rhenogovia et Lusitania. — «An vera *Ascochyta?*»

79. **Ascochyta Saponariæ** Fuck. Symb. myc. p. 388. — Peritheciis numerosissimis, in macula fusca, minutis, subconicis, atris. 2201

Hab. in pagina sup. foliorum viventium Saponariæ officinalis, quam interdum omnino occupat, in Rhenogovia. — «An hujus loci?»

80. **Ascochyta Rhynchosiæ** (Thüm.) Sacc. *Depazea Rhynchosiæ* Thüm. Fung. Am. trig. Sp. n. 20 et M. U. n. 596. — Peritheciis minimis, sparsis, epiphyllis, immersis, globosis, atris in maculis brunneo-fuscis, obscure marginatis, irregularibus; sporulis minimis, fusiformibus, uniseptatis, utrinque acutatis, hyalinis, 9 ≃ 3. 2202

Hab. in foliis vivis Rhynchosiæ reniformis, Aiken in Carolina australi.

81. **Ascochyta Dianthi** (A. S.) Berk. Outl. p. 320, *Sphæria* (Depazea) *Dianthi* Alb. et Schw. Lus. t. VI. f. 2. — Peritheciis irregularibus, conglomeratis; sporulis spathulatis, medio septatis, granulosis. 2203

Hab. in foliis vivis Dianthi in Britannia et Germania.

82. **Ascochyta Potentillarum** Sacc. Mich. I. p. 170. — Maculis versi- 2204

formibus epiphyllis arescendo candicantibus, atro-sanguineo-marginatis; peritheciis punctiformibus, lenticularibus; sporulis fusoideo-cylindraceis, utrinque obtusiusculis, 10 ≃ 3, 1-septatis, non constrictis, chlorinis.

Hab. in foliis Potentillæ reptantis, Selva in Ital. bor.

83. **Ascochyta Fragariæ** Sacc. Mich. I. p. 169. — Maculis arescendo dealbatis, atro-sanguineo-marginatis, subcircularibus; peritheciis e globoso lenticularibus 100 μ. diam., latiuscule pertusis; contextu tenui parenchymatico subochraceo, circa porum conspicue incrassato; sporulis oblongo-fusoideis, rectis, 12-15 ≃ 3-4, 1-septatis, non constrictis, dilute olivaceis. 2205

Hab. in pag. sup. foliorum Fragariæ vescæ et chiloënsis, Selva in Italia boreali et Coimbra in Lusitania. — Affinis *Ascochytæ ampelinæ* Sacc.

84. **Ascochyta Pallor** Berk. Outl. p. 320 et Ann. N. H. n. 193, t. XI. f. 2. — Maculis pallidis, subrotundis; peritheciis sparsis, immersis, pallidis, epidermide ostiolis minutis perforata et circum ostiola leniter elevata et atrata; sporulis allantoideis, leniter curvatis, utrinque obtusis, hyalinis. 2206

Hab. in ramulis vivis Rubi Idæi in Britannia. — « Si sporulæ jugiter continuæ, species ad *Phyllostictam* ducenda erit. »

85. **Ascochyta Feuilleauboisiana** Sacc. et Roum. Reliq. Lib. Ser. IV. n. 122. — Maculis arescendo albicantibus anguste atro-cinctis; peritheciis globoso-lenticularibus, perexiguis; sporulis oblongo-fusoideis, obtusiusculis, 1-septatis, 18-20 ≃ 2,5, hyalinis, lenissime medio constrictis. 2207

Hab. in foliis Ruborum epiphylla in Arduennis (Libert).

86. **Ascochyta althæina** Sacc. et Bizz. Fung. Gall. n. 2240. — Maculis sordide brunneis, sæpe flavo-marginatis, subcircularibus; peritheciis innatis, punctiformibus; sporulis oblongis, utrinque rotundatis, 1-septatis, constrictulis, hyalinis, 7-10 ≃ 3,5-4. 2208

Hab. in foliis languidis Althææ officinalis, Rouen in Gallia (Letendre).

87. **Ascochyta obducens** Fuck. Symb. myc. p. 388. — Peritheciis conicis, minimis, atris, numerosissimis, in maculis exaridis demum foliorum paginam inferiorem totam obducentibus. 2209

Hab. in foliis vivis v. languidis Spirææ Ulmariæ in Germania et Sibiria.

88. **Ascochyta malvicola** Sacc. Mich. I. p. 161. — Maculis subcircularibus sinuosisve arescendo dealbatis, vix marginatis; peritheciis 2210

sparsis punctiformibus lenticularibus, pertusis; sporulis breve cylindraceis, utrinque rotundatis, 20 ≃ 4, 1-septatis, leniter constrictis, minute 4-guttulatis, hyalinis.

Hab. in foliis Malvæ silvestris, Selva in Ital. bor.

89. **Ascochyta Passifloræ** Penz. et Sacc. F. Mortol. n. 39. tav. V. fig. 23. — Peritheciis sparsis, hypodermicis, ostiolo solo prominente, majusculis, 300-330 μ. diam., sphæroideis, valde depressis, contextu filamentoso, tenui, brunneo; sporulis oblongo-ellipticis, acutiusculis, medio septatis, ad medium haud constrictis, loculis sæpius inæqualibus, 8-12 ≃ 4-5, dilute brunneis. 2211

Hab. in pedunculis exsiccatis Passifloræ hybridæ, Mortola in Ital. bor. (O. Penzig).

90. **Ascochyta? Astrantiæ** Roum. in Fung. Gall. n. 33. — Perithecia detegere non potui; maculæ vero ad *Pseudopezizam Astrantiæ* Schröt. (*Phacidium Astrantiæ* Ces.?) pertinere viderentur, sed ascomata desunt. 2212

Hab. in foliis Astrantiæ majoris, Mont Louis in Gallia.

91. **Ascochyta phomoides** Sacc. Mich. I. p. 530. — Peritheciis sparsis, subcutaneis, dein erumpentibus, globulosis, pertusis, 100-110 μ. diam.; sporulis oblongo-didymis, 7-9 ≃ 4, leniter constrictis, hyalinis. 2213

Hab. in caule Eryngii, Rouen in Gallia (Letendre).

92. **Ascochyta anethicola** Sacc. Mich. II. p. 621. — Peritheciis gregariis innato-erumpentibus, prominulis, exiguis, 1/6 mill. diam.; sporulis cylindraceo-oblongis, utrinque obtusiusculis, 8-10 ≃ 3,5-4, initio continuis, dein 1-septatis, hyalinis. 2214

Hab. in foliolis languidis Anethi prope Rouen in Gallia (Malbranche).

93. **Ascochyta Bupleuri** Thüm. Contr. Myc. Lus. n. 603. *Depazea Bupleuri* Fuck. Symb. myc. p. 382? — Peritheciis conicis, atris, numerosis, in macula exarida, grisea. 2215

Hab. in foliis vivis Bupleuri subovati Link. (*Bupleuri rotundifolii* Brot.) St. Clara pr. Coimbra in Lusitania, et Bupleuri falcati in Germania.

94. **Ascochyta Scabiosæ** Rabenh. in Kl. Hb. myc. 1253. — Cirris incarnatis hyalinis. 2216

Hab. in foliis vivis Knautiæ arvensis in Germania.

95. **Ascochyta Senecionis** Fuck. Symb. myc. p. 386. — Peritheciis minutis, globosis, atris, sine macula, in acervulos sparsos minutos aggregatis. 2217

Hab. in pagina infer. foliorum languidorum Senecionis saracenici, Hattenheim in Germania.

96. **Ascochyta Schelliana** Thüm. in N. Giorn. Bot. ital. — Peritheciis numerosis, gregariis, amphigenis vel caulicolis, conico-globosis, magnis, emersis, aterrimis in maculis exaridis, primo ochraceo-griseis, demum albido-griseolis; sporulis cylindraceis, utrinque rotundatis, magnis, medio plerumque leniter angustatis vel calceiformibus, continuis vel medio obscure septatis, achrois, 25–33 ≃ 7-8,5. 2218

Hab. in foliis et caulibus subvivis Centaureæ glastifoliæ, Sierkly (Ufa) in Sibiria.

97. **Ascochyta fibricola** Sacc. Mich. I. p. 109. — Maculis subnullis; peritheciis lenticulari-punctiformibus, 140–150 μ. diam., inter fibras corticales nidulantibus; sporulis cylindraceis, curvulis, 8–10 ≃ 3, utrinque obtusiusculis, 1-septatis, vix constrictis, fusco-olivaceis. 2219

Hab. in caulibus putrescentibus Cinerariæ maritimæ, Rouen in Gallia (Letendre). — Affinis *Diplodiellæ fibricolæ* Berk., quæ peritheciis oblongis, sporulis brevioribus etc. differt.

98. **Ascochyta Chloræ** Sacc. et Sp. Mich. I. p. 163. — Maculis variis, arescendo expallentibus; peritheciis sparsis, globoso-lenticularibus, 100–200 μ. diam., subastomis; contextu laxe parenchymatico, dilute fuligineo; sporulis oblongo-fusoideis, 10–18 ≃ 2–3, 1-septatis, leniter constrictis, utrinque acutiusculis, hyalinis. 2220

Hab. in foliis Chloræ perfoliatæ, Conegliano in Italia bor. (Spegazzini).

99. **Ascochyta physalina** Sacc. Mich. I. p. 93. — Maculis arescendo ochraceis, vagis; peritheciis immerso-prominulis, epiphyllis, 100 μ. diam., pertusis; sporulis cylindraceo-oblongis, constricto-1-septatis, 25–28 ≃ 8, 2-4-guttulatis, hyalinis. 2221

Hab. in foliis languidis Physalidis Alkekengi in silva Montello Ital. bor.

100. **Ascochyta Petuniæ** Speg. Nov. Add. n. 156, et Sacc. Mich. II. p. 278. — Maculis fuligineis, circularibus, dein angulosis, concentrice saturatius et ruguloso-zonatis; peritheciis ratione majusculis 100–130, intense coloratis; sporulis cylindraceo-ellipticis, medio 1-septatis, non vel vix constrictis, hyalinis 5–8 ≃ 2. 2222

Hab. in foliis Petuniæ in hortis Belluno Ital. bor.

101. **Ascochyta Nicotianæ** Pass. Crittog. del Tabacco n. 2. — Peritheciis in maculis exaridis, irregularibus subaggregatis, fuscis; sporu- 2223

lis ovoideo-oblongis, medio septatis et leniter constrictis, hyalinis, endoplasmate granuloso.

Hab. in foliis languidis, primo pallide variegatis Nicotianæ Tabaci, Parma in Italia.

102. **Ascochyta Daturæ** Sacc. Mich. I. p. 163. — Maculis subcircularibus, sinuosis, arescendo albicantibus, margine lato ochraceo cinctis; peritheciis gregariis epiphyllis, quandoque subconcentricis, e globoso lenticularibus, innato-prominulis 100 μ. diam.; sporulis cylindraceo-oblongis, utrinque rotundatis, 7-8 ≃ 3, 1-septatis, vix constrictis, hyalinis. 2224

Hab. in foliis Daturæ Stramonii, Selva in Ital. bor., et in foliis vivis Daturæ arboreæ, Coimbra in Lusitania.

103. **Ascochyta Calystegiæ** Sacc. Mich. I. p. 165. — Maculis vagis irregularibus, arescendo brunneis, concentrice subzonatis, margine saturatiori; peritheciis sparsis epiphyllis punctiformibus, lenticularibus, 90-100 μ. diam., pertusis, laxe cellulosis; sporulis oblongis v. subclavatis, 7-8 ≃ 3, utrinque obtusiusculis, 1-septatis, non v. vix constrictis, hyalinis. 2225

Hab. in foliis Calystegiæ sepium, Selva in Ital. bor.

104. **Ascochyta carpogena** Sacc. in Mich. II. p. 109. — Maculis obsoletis; peritheciis sparsis, lenticulari-punctiformibus, 150 μ. diam., pertusis, contextu melleo; sporulis oblongis clavulatisve, 10 ≃ 4-6, constricto-1-septatis, utrinque rotundatis, dilute chlorinis, nubilosis. 2226

Hab. in capsulis emortuis Pharbitis hispidæ in Gallia (Malbranche).

105. **Ascochyta verbascina** Thüm. Contr. Fung. Litor. n. 343. — Peritheciis epiphyllis, conico-hemisphæricis, semiimmersis, sparsis, nigris, parvulis, in maculis irregularibus, arescendo albidis, postremo elabentibus, latissime sordide violaceo-ochraceo-cinctis; sporulis cylindrico-ellipticis, utrinque angustato subrotundatis, rectis vel minime curvulis, uniseptatis, hyalinis, 6 ≃ 2,5-3. 2227

Hab. in foliis vivis Verbasci sinuati, Pola in Ital. bor. — Ab *Ascochyta Verbasci* Sacc. et Speg. characteribus notatis valde differt.

106. **Ascochyta Verbasci** Sacc. et Sp. Mich. I. p. 166. — Maculis arescendo sordide ochraceis, vagis, margine concolore; peritheciis sæpius epiphyllis, lenticularibus, 150-200 μ. diam., pertusis, cellulis dilute fuligineis sinuosis contextis; sporulis ovato-oblongis, 15-18 ≃ 5-5,5, constricto-1-septatis, rectis v. leniter curvulis, 4-guttulatis, hyalinis. 2228

Hab. in foliis Verbasci phlomoidis, Conegliano in Italia bor. (Spegazzini).

107. **Ascochyta Digitalis** Fuck. Symb. myc. pag. 388. — Peritheciis 2229
minutis, atris, in macula purpurascenti nidulantibus; sporulis nondum visis («hinc dubia species»).

Hab. in foliis vivis Digitalis purpureæ in Germania et Lusitania.

108. **Ascochyta Molleriana** Winter Cont. Myc. Lus. n. 796. — Ma- 2230
culis rotundatis seu irregularibus, arescendo griseis, late fusco-purpureo-cinctis, usque 12 mill. lat.; peritheciis sparsis epiphyllis, membranaceis, hemisphæricis, pertusis, pallidis, 120–140 μ. lat.; sporulis oblongis, sæpe medio parum angustatis, utrinque rotundatis, hyalinis, demum uniseptatis, sed non constrictis, 9,5–12 ≃ 3,5.

Hab. in foliis vivis Digitalis purpureæ, Leonte (Serra de Gerez) in Lusitania.

109. **Ascochyta Lamiorum** Sacc. Mich. I. p. 170. — Maculis versi- 2231
formibus amphigenis, arescendo dilute ochraceis, margine paullo saturatiore; peritheciis punctiformibus, lenticularibus, 50–70 μ. diam., pertusis; sporulis bacillari-fusoideis utrinque acutiusculis, 9–11 ≃ 2–2¾, 1-septatis, non constrictis, e hyalino chlorinis.

Hab. in foliis Lamii albi, Selva in Italia bor.

110. **Ascochyta Hyperici** Lasch. in Bot. Zeit. 1848, p. 294. — Ma- 2232
culis fulvis; cirris albis.

Hab. in foliis Hyperici perforati, Driesen, Rheingau in Germania, et Treviso in Ital. bor. — Sporulæ non visæ, verisimiliter tamen species eadem ac *Septoria Hyperici* Desm.

111. **Ascochyta Elaterii** Sacc. Mich. I. p. 166. — Maculis vagis, are- 2233
scendo pallide argillaceis, fusco-cinctis; peritheciis gregariis velatis, sublenticularibus, 100–110 μ. diam. late pertusis, initio (imperfectis) fulventibus, dein nigricantibus; sporulis cylindraceo-oblongis, 20–22 ≃ 4, utrinque rotundatis, rectis curvulisve, 1-septatis, non v. vix constrictis, hyalinis.

Hab. in foliis Momordicæ Elaterii in horto botanico patavino in Ital. bor.

112. **Ascochyta Plantaginis** Sacc. et Speg. Mich. I. p. 166. — Ma- 2234
culis variis arescendo brunneis; peritheciis gregariis, lenticulari-umbilicatis, 100–150 μ. diam., latiuscule pertusis, laxe cellulosо-contextis, olivaceo-fuligineis; sporulis oblongis v. subellipsoideis, 7–12 ≃ 2½–3, utrinque obtusis, sæpe curvulis, 1-septatis, non constrictis, 2-guttulatis, hyalinis.

Hab. in foliis Plantaginis majoris, Treviso in Ital. bor. (Spegazzini).

113. **Ascochyta volubilis** Sacc. et Malbr. Mich. II. p. 621. — Peritheciis gregariis, globoso-lenticularibus, nigricantibus, punctiformibus, epidermide initio velatis; sporulis oblongo-ellipsoideis, utrinque rotundatis, initio continuis, dein medio septatis, 8–10 ≃ 3–4, hyalinis. 2235

Hab. in caule Polygoni Convolvuli, Rouen in Gallia (Malbranche).

114. **Ascochyta vicina** Sacc. Mich. II. p. 109. — Maculis obsoletis; peritheciis gregariis hemisphærico-punctiformibus, 110–120 μ. d., pertusis, contextu melleo; sporulis anguste fusoideis, 8–10 ≃ 2–2¼, utrinque acutis, olivaceis, 1-septatis. 2236

Hab. in caule Rumicis, Rouen in Gallia (Letendre), et Salviæ officinalis, Padova (Bizzozero). — V. β. **evonymella** Sacc. Peritheciis paullo majoribus, ceteris iisdem. In capsulis Evonymi europæi, Rouen in Gallia (Letendre).

115. **Ascochyta Aristolochiæ** Sacc. Mich. I. p. 165. — Maculis amphigenis, subcircularibus, arescendo denigratis, margine saturatiori; peritheciis sparsis, remotis, punctiformibus, 60–70 μ. diam., lenticularibus, pertusis, contextu tenui-parenchymatico, luteo-fusco; sporulis ellipsoideo-oblongis, 7–9 ≃ 3–3½, utrinque rotundatis, rectis curvulisve, 1-septatis, vix constrictis, hyalinis. 2237

Hab. in foliis Aristolochiæ Clematitis, Selva pr. Treviso in Ital. bor.

116. **Ascochyta Araujæ** Speg. Fungi Argent. Pug. IV. n. 301. — Maculis latiusculis, 3–5 mill. diam., subindeterminatis, centro candidis, peripherice fulvo-fuscescentibus, areola purpurascenti cinctis; peritheciis peripheric epiphyllis minutis, 75–95 μ. d., innato-prominulis, atris membranaceis; contextu olivaceo-fusco; sporulis ellipticis v. elliptico-cylindraceis, utrinque obtusis, 8–15 ≃ 4–5 medio, 1-septatis, non constrictis, sed quandoque attenuatis, chlorinulis. 2238

Hab. in foliis languidis Araujæ albentis in sepibus, Boca del Riachuelo in Argentina.

117. **Ascochyta folliculorum** Penz. et Sacc. Fung. Mortol. n. 38. tav. V. fig. 21. — Peritheciis minutissimis, sparsis vel laxe congregatis, depressis, tenuibus, 67–80 μ. diam.; sporulis breviter cylindraceis, utrinque rotundatis, medio paullulum constrictis, uniseptatis, dilute fuligineis, 6–7 ≃ 3–3,5. 2239

Hab. in folliculis vetustis Stapeliæ sp., Mortola in Italia boreali (O. Penzig).

118. **Ascochyta Jenissensis** Sacc. Mich. II. p. 144. — Maculis epiphyllis subcircularibus, expallentibus, fusco-marginatis; peritheciis epiphyllis, lenticularibus, pertusis, $^1/_{10}$ mill. diam., contextu parenchymatico, pallide fusco; sporulis oblongis, utrinque rotundatis, curvulis, 1-septatis, vix constrictis, hyalinis. 2240

Hab. in foliis Menispermi dahurici in lapidosis ad flumen Jenissei in Sibiria (Martianoff).

IV. *In Monocotyledoneis et Acotyledoneis.*

119. **Ascochyta Erythronii** Sacc. et Sp. Mich. I. p. 163. — Maculis albescentibus, indeterminatis; peritheciis punctiformibus, lenticularibus, pertusis, 150–180 μ. diam.; contextu parenchymatico, dilute fuligineo; sporulis oblongo-fusoideis, 14–18 ≃ 4–5, utrinque acutiusculis, 1-septatis, vix constrictis, hyalinis. 2241

Hab. in foliis Erythronii Dentis-canis, Conegliano in Ital. bor. (Spegazzini).

120. **Ascochyta aquatica** Speg. Mich. I. p. 483. — Peritheciis minutis, 90–100 μ. d., subepidermicis, contextu parenchymatico, densiusculo, olivaceo, ostiolo parvulo pertuso; sporulis oblongo-ellipticis, medio 1-septatis, ad septum non vel vix constrictis, dilute chlorinis, 7–9 ≃ 2–3. 2242

Hab. ad folia putrida Lemnæ minoris prope Conegliano in Italia boreali.

121. **Ascochyta teretiuscula** Sacc. et Roum. Mich. II. p. 621. — Maculis nullis; peritheciis innatis, punctiformibus, pertusis, 100–110 μ. diam.; sporulis cylindraceis utrinque rotundatis, 10–14 ≃ $2^1/_2$ uniseptatis, vix constrictis, hyalinis. 2243

Hab. in foliis Luzulæ in Arduennis (Libert).

122. **Ascochyta socialis** Sacc. Mich. II. p. 103. — Maculis vagis obsoletisque; peritheciis gregariis, punctiformi-lenticularibus, 100 μ. diam., pertusis, epidermide velatis; sporulis fusoideis, 15–16 ≃ 5, constricto-1-septatis, perfecte hyalinis. 2244

Hab. in foliis putrescentibus convolutis Cyperacearum (Caricis?) ad storeas conficiendas adhibitis et in aquis Sequanæ (*Seine*) diu natantibus, Parisiis. Legit cl. Gaudefroy, qui autumat storeas prædictas ex Sinis forte provenisse.

123. **Ascochyta zeina** Sacc. Mich. I. p. 165. — Maculis longitudinaliter oblongis sanguineis, margine subconcolori; peritheciis grega- 2245

riis, punctiformibus, lenticularibus, pertusis; contextu laxiuscule parenchymatico, fuligineo; sporulis oblongo-ellipsoideis, 18 ≃ 7½, utrinque rotundatis, 1-septatis, leniter constrictis, crasse 2-nucleatis, hyalinis.

Hab. in pag. sup. foliorum Zeæ Maydis, Conegliano in Italia boreali (A. Bérenger).

124. **Ascochyta Sorghi** Sacc. Fungi Ven. Ser. II. p. 302. — Maculis pallidis, sanguineo-cinctis; perithecis sparsis punctiformibus, pertusis, atris; sporulis oblongo-ovoideis, 14 ≃ 3, 1-septatis, 4-guttulatis, hyalinis. 2246

Hab. in foliis Sorghi vulgaris, Selva in Ital. bor., sociâ *Sphærellâ Cerere* Sacc., cujus est spermogonium.

125. **Ascochyta sorghina** Sacc. Mich. I. p. 167. — Maculis longitudinaliter oblongis arescendo fuscis, sanguineo-marginatis; perithecis dense gregariis, globoso-depressis, papillulatis, pro genere majusculis; sporulis oblongo-ellipsoideis, 20 ≃ 8, 1-septatis, leniter constrictis, minute pluriguttulatis, hyalinis. 2247

Hab. in foliis Sorghi vulgaris, Selva in Ital. bor. — Ab *A. zeina* perithecis majoribus, sporulis pluriguttulatis etc. recedere videtur.

126. **Ascochyta donacina** Sacc. Myc. Ven. Spec. 107 (ut status pycnidicus *Leptosphæriæ donacinæ*). — Perithecis lenticularibus, 90–100 μ. diam.; sporulis didymis, 8–10 ≃ 4–5, dilute flavis. 2248

Hab. in culmis Donacis in Italia et Gallia.

127. **Ascochyta perforans** (Rob.) Sacc. *Sphæria perforans* Rob. in Kickx t. I. p. 354. — Perithecis sparsis, minutis, nigris, ellipsoideis, immersis, ostiolo brevi epidermidem perforante, dein late pertuso; sporulis hyalinis, ellipticis, acutiusculis, 1-septatis. 2249

Hab. in foliis Ammophilæ arundinaceæ in Belgio. — Spermogonium videtur *Metasphæriæ Sabulatorum*. — Cfr. *Sphærella perforans* (Sylloge I. p. 538).

128. **Ascochyta Oryzæ** Catt. Contrib. studio dei miceti che nascono sul Riso, Milano 1877, pag. 4. — Perithecis epidermide semper tectis, celluloso-membranaceis, nigris, apice pertusis, intus pulpa sporularum repletis; sporulis lineari-oblongis, utrinque rotundatis, septo medio transverso ægre percipiendo bilocularibus, 4-nucleolatis, pallide flavicantibus, 15 ≃ 4. 2250

Hab. in foliis Oryzæ sativæ, Pavia in Italia.

129. **Ascochyta phyllachoroides** Sacc. et Malbr. Mich. II. p. 621. — Perithecis in macula stromatica nigra hinc inde gregariis, pun- 2251

ctiformibus innatis; sporulis oblongis, 18–20 ≃ 5–6, uniseptatis, loculo inferiore paullo tenuiore, hyalinis.

Hab. in utraque pag. foliorum languidorum graminum, Elbeuf in Gallia (Malbranche).

130. **Ascochyta graminicola** Sacc. Mich. I. p. 127. — Maculis expallentibus v. obsoletis; peritheciis gregariis punctiformibus lenticularibus, 100 μ. diam., pertusis; contextu distincte parenchymatico fuligineo; sporulis ovato-fusoideis, 10–12 ≃ 4, rectis, 1-septatis, 2-nucleatis, hyalinis. 2252

Hab. in foliis Arrenatheri avenacei, Berlin in Germania (P. Magnus). — Var. β. **Holci** Sacc. Mich. II. p. 350: sporulis quam in typo longioribus et angustioribus, nempe fusoideis, 16–18 ≃ 3–3½, leniter constrictis, minute 4-guttulatis, hyalinis; peritheciis lenticularibus, pertusis, 100 μ. d., sæpius inter nervos seriatis. In foliis Holci lanati in Gallia (Malbranche). — Var. γ. **ciliolata** Sacc. Mich.: sporulis utrinque obsolete penicillatis, 18–20 ≃ 3½–4, hyalinis, uniseptatis; peritheciis pertusis, 110–120 μ. diam., fuligineo-contextis. In foliis graminum in Arduennis (Libert). — An hæc postrema potius *Darluca?*

131. **Ascochyta Ischæmi** Sacc. Mich. I. p. 164. — Maculis indeterminatis expallentibus; peritheciis punctiformibus, globulosis, innatis; sporulis ellipsoideis v. ovoideis, 10 ≃ 4½, 1-septatis, non constrictis, 2-guttulatis, hyalinis. 2253

Hab. in foliis culmisque Andropogonis Ischæmi, Narvesa, Treviso in Ital. bor. — *Ascochytæ graminicolæ* Sacc. F. Magn. n. 30 affinis.

132. **Ascochyta Marchantiæ** Sacc. et Sp. Mich. I. p. 167. — Maculis obsoletis; peritheciis punctiformibus, lenticularibus, 90–100 μ. diam., plerumque seriatim digestis, erumpentibus, distincte celluloso-contextis, olivaceo-fuligineis; sporulis oblongis, 13–15 ≃ 3–4, constricto-1-septatis, loculo altero plerumque paullo crassiore, 2-guttulatis, hyalinis. 2254

Hab. in fronde emortua Marchantiæ, Conegliano in Italia bor. (Spegazzini).

ROBILLARDA Sacc. Mich. II. p. 8. emend. (Etym. a cl. M. L. A. Robillard, botanophilo parisiensi). — Perithecia globoso-depressa, epidermide velata (maculicola, phyllogena) dein pertusa, membranacea. Sporulæ fusoideæ, 1-septatæ, chlorino-hyalinæ, apice setulas

longas (ternas) gerentes. Basidia nulla vel obsoleta. — A *Pestalozzia* præ ceteris perithecio præsente differt.

1. **Robillarda sessilis** Sacc. Mich. II. p. 8, *Pestalozzia sessilis* Sacc. M. V. n. 975, Mich. I. p. 261. — Maculis parvis, angulosis, albicantibus, rufo-cinctis; peritheciis epiphyllis, innatis, epidermide velatis, dein circumscissâ pertusis, lenticularibus; sporulis sessilibus, oblongis, 9–11 ≃ $3^1/_2$, 1-septatis, leniter constrictis, dilute olivaceis, setis ternis, 14 ≃ 1, hyalinis apice coronatis. 2255

Hab. in foliis languidis Rubi cæsii, Colfosco in Italia bor.

2. **Robillarda depazeoides** (W. et C.) Sacc., *Pestalozzia depazeoides* Welw. et Curr. F. Angol. p. 284, t. XVII. f. 14. — Macula oblonga, grisea, 18 mill. longa, margine fusco; peritheciis minutis nigris, macula insidentibus; sporulis pallide fuscis continuis, dein 1-septatis, non constrictis, setis tribus longis coronatis, 12–15 μ. longis (absque ciliis). 2256

Hab. in foliis Fici andongensis in summis jugis Pungo-Andongo in Africa.

ACTINONEMA Fries Summa Veg. Scand. p. 424. (Etym. *actin* radius, et *nema* filum). — Perithecia minuta, obtusa, subsuperficialia, astoma, fibrillis eximie dendritico-radiantibus, arachnoideis, epiphyllis, superficialibus adnata. Sporulæ typice oblongæ, hyalinæ, stipitatæ, 1-septatæ, vel (in subg. *Asteromidio*) 2-pluriseptatæ. — In pluribus speciebus fructificatio latet.

I. *Eu-Actinonema.*

Sporulæ 1-septatæ.

1. **Actinonema Rosæ** (Lib.) Fr. S. V. Sc. p. 424, *Asteroma Rosæ* Lib. in Ann. Soc. Linn. 1826, *Asteroma radiosum* Fr. El. II. p. 151. — Epiphyllum; maculis purpurascentibus; fibrillis e centro radiantibus, ramosis distinctis, albido-arachnoideis; peritheciis tuberculiformibus, sparsis, collabentibus, nigricantibus; sporulis oblongis, constricto-1-septatis, 18–20 ≃ 5, basidiis paullo brevioribus suffultis. 2257

Hab. in pag. sup. foliorum nondum emortuorum Rosæ centifoliæ, gallicæ, rubiginosæ etc. in Suecia, Gallia, Britannia, Italia, Belgio, Germania, Austria, Lusitania, America boreali.

2. **Actinonema Cratægi** Pers. Myc. Eur. I. p. 52, *Capillaria Cratægi* Link Sp. pl. Fung. II. p. 22. — Epiphyllum; maculis fuscis; fibrillis e centro radiantibus, ramosis distinctis canescentibus, demum 2258

e peritheciis minutissimis connatis nodulosis, nigricantibus; sporulis..... ignotis.

Hab. in pag. sup. foliorum Cratægi torminalis et Viburni Opuli in Gallia, Germania, Italia, Helvetia. — *Asteroma Cratægi* Desm. et Berk. ex parte sistit *Fusicladium*, dum genuina species toto habitu ad *Actin. Rosæ* accedit, etsi ipse perithecia sporigera nondum viderim. — Maculæ fuscæ, irregulares, 6 mill. latæ, sed confluentes; etiam hypophyllæ, sed et ita steriles. Fibrillæ radiatim excurrentes, ramosæ, discretæ, folio innatæ, primo canescentes, dein vero e peritheciis nigris (ipsis fibrillis innatis, seriatis, confluentibus, sub lente forti tantum discernendis) nigricantes et noduloso-asperæ; apices vero pallent.

3. **Actinonema Padi** (DC.) Fr. Summa p. 424, *Asteroma Padi* DC. 2259
Fl. Fr. VI. p. 164, *Phlyctidium Padi* Wallr. Comp. n. 2310. — Peritheciis subrotundis, sparsis, minutissimis, patellaribus, pallidis, margine tenui concolore cinctis, sæpius confluentibus, hypostromati epiphyllo ex radiis filamentosis, compressis, deplanatis, tenerrimis, arcte adpressis, distinctis, arachnoideo-byssoideis, dichotomo-ramosis, a centro obsoleto inde dendritico-radiantibus albis composito adfixis, maculas centro fusco-cinerescentes mentientibus; sporulis ..... ignotis.

Hab. in pag. sup. foliorum virentium Pruni Padi in Gallia, Germania, Suecia. — Accedit ad *Act. Rosæ*, sed hyphis ambitu longioribus, magis deplanatis minusque continuis crispulis, maculas longe ampliores præstantibus, et peritheciis minoribus distinguitur.

4. **Actinonema Rubiacearum** (Lév.) Sacc. *Asteroma Rubiacearum* 2260
Lév. in Ann. Sc. Nat. 1845, p. 64. — Peritheciis epiphyllis, minimis, globosis, nigris, subiculo fibrilloso-ramoso tenuissimo arcte adnato insidentibus; sporulis bilocularibus; basidiis filiformibus subramosis.

Hab. in foliis Rubiaceæ cujusdam in Senegal (Guillemin).

II. *Asteromidium.*

Sporulæ 2-pluriseptatæ.

5. **Actinonema Guepini** (Mont.) Sacc. *Asteroma Guepini* Mont. 7 Cent. 2261
p. 305-63. — Epiphyllum, maculare, atrum; maculis eximie orbiculatis planis confluentibus, zona dilutiore cinctis, sub epidermide ortis; filis macularum e centro radiantibus crassis fine acutis; peritheciis dimidiatis poro pertusis; sporulis oblongis quadriloculatibus, 25 μ. longis.

Hab. ad folia exotica Monocotyledoneæ cujusdam in calathos ad fabas arabicas invehendas texta (Guepin). — « An sporulæ propriæ? An species *Asterinæ* sec. *Asteridii*, ascis jam resorptis? ».

6. **Actinonema Uvariæ** (Lév.) Sacc. *Asteroma Uvariæ* Lév. Ann. Sc. Nat. 1846, p. 284. — Fibrillis epiphyllis, adnatis, radiantibus, ramosis, subparallelis; peritheciis raris hemisphæricis, ostiolo obsoleto; sporulis ovato-elongatis obtusis, 4-septatis. 2262

Hab. ad folia Uvariæ parviforæ in Senegambia. — Maculæ 2-4 mill. diam.

DARLUCA Cast. Cat. pl. Mars. Suppl. p. 53. (Etym. a M. Darluc, rerum naturalium cultore, gallicano). — Perithecia globulosa, obsolete papillata, pertusa, superficialia, in soris *Uredinearum* plerumque parasitica, membranacea, contextu sæpius cyanescente. Sporulæ oblongæ vel fusoideæ, 1-septatæ, hyalinæ, utrinque mucoso- vel subpenicillato-apiculatæ.

1. **Darluca Filum** (Biv.) Cast. Cat. Pl. Marseill. Sup. p. 53, *Sphæria Filum* Biv. Bern. Stirp. rar. Sic. Manip. III. p. 12, t. III. p. I. *Darluca vagans* Cast., *Diplodia uredinicola* Desm. — Peritheciis gregariis, uredinicolis, exiguis, conico-globulosis, pertusis, atris; contextu celluloso cyaneo-fusco; sporulis oblongo-fusoideis, rectis, 15-18 ≃ 3-4, 1-septatis, non vel leniter constrictis, hyalinis, utrinque obsolete et breve mucoso-penicillatis. 2263

Hab. in Uredineis permultis ad plantas diversissimas e. g. Ipomeæ, Euphorbiæ, Rubi, Oreoselini, Galegæ, Chondrillæ, Oxalidis, Potentillæ, Pruni, Laburni, Violæ, Pycnanthemi, Quercus, Junci, Luzulæ, Agrostidis, Rhynchosporæ, Bromi, Panici etc. etc. in Italia, Gallia, Belgio, Germania, Britannia, America bor., Ceylon, Africa.

2. **Darluca genistalis** (Fr.) Sacc. Mich. II. p. 108, *D. Filum* β. *dothideæformis* Fuck. Symb. p. 379. — Peritheciis minutis, in acervulos erumpentes, tuberculosos, atros, subhemisphæricos dense collectis; sporulis ut in *D. Filo*. 2264

Hab. in foliis caulibusque vivis Cytisi sagittalis, socio *Uromycete Cytisi* in Vogesis, Rhenogovia et Belgio. — Var. β. **stromatica** Fuck. l. c. effusa, stromatica, fusco-atra. In foliis et vaginis Agrostidis stoloniferæ, socià *Uredine*, in Rhenogovia. — Var. γ. **hypocreoides** Fuck. l. c. cæspitulis subglobosis, $^1/_2$ mill. diam., griseis, ostiolis nigro-punctatis. In pag. inf. foliorum Salicis purpureæ, socià *Uredine*, in Rhenogovia.

3. **Darluca Bivonæ** Fuck. Symb. p. 379, t. II. f. 22. — Erumpens, epidermide expallescente, fissâ circumdata; stromate spurio nigro, in centro albo, plerumque sporulis candidis tecto; peritheciis 3–10 in orbem circa pustulam centralem dispositis, minutis, globosis, atris, ostiolis papillæformibus, prominulis; sporulis cylindraceis, rectis, obtusis, utrinque cum appendicula fasciculari sporulam dimidiam æquante, subtilissima et facile caduca coronatis, 12 ≃ 3. 2265

Hab. in foliis et præcipue petiolis Populi moniliferæ, rarius in Rhenogovia. — «An reapse *Sphæria Filum β. populicola* Biv. huc spectet, mihi dubium est».

4. **Darluca ascochytoides** Sacc. et Roum. in Rev. Mycol. — Peritheciis hinc inde aggregatis sparsisve, tectis, globoso-lenticularibus, pertusis; contextu parenchymatico melleo; sporulis oblongo-fusoideis, 18 ≃ 5, 1-septatis, vix constrictis, utrinque breve setigeris, hyalinis, obsolete guttulatis. 2266

Hab. in foliis languidis Allii Ampeloprasi in Algeria. — Habitatione sine *Uredine* et contextu haud cyaneo a *D. Filo* differt. — Cfr. *Ascochyta graminicola* var. γ.

DIPLODINA West. 5 Not. p. 19 in nota (Etym. a *Diplodia*, cui analogum genus). — Perithecia subcutanea vel erumpentia, globuloso-papillata, atra, glabrescentia. Sporulæ ellipsoideo-oblongæ, 1-septatæ, hyalinæ. — Est *Diplodia* hyalodidyma.

1. **Diplodina Salicis** West. 5 Not. p. 19, Kickx Fl. Fl. I. p. 394. — Peritheciis sparsis, nigris, sphæricis, $^2/_3$ mill. diam., tectis, ostiolo papillato; sporulis fusoideis, angustis, hyalinis, 1-septatis, 15 ≃ 3,3, non constrictis. 2267

Hab. in ramis Salicis babylonicæ, Courtrai in Belgio.

2. **Diplodina stenospora** (B. et C.) Sacc. *Diplodia stenospora* B. et C. North Amer. Fungi n. 422. — Peritheciis papillæformibus e macula grisea oriundis; sporulis angustis, hyalinis breviter fusiformibus. 2268

Hab. in cortice Aceris rubri in Carolina super. Amer. bor.

3. **Diplodina truncata** (Lév.) Sacc. *Diplodia truncata* Lév. Ann. Sc. Nat. 1846, pag. 290. — Peritheciis subcarnosis, compactis, albis, truncatis, epidermide lacerata circumdatis; sporulis minutis, ovato-elongatis, bilocularibus, hyalinis. 2269

Hab. in ramis Æsculi Hippocastani, Paris in Gallia et Courtrai in Belgio. — An *Melanconieis* affinior?

4. **Diplodina herbicola** (B. et C.) Sacc. *Diplodia herbicola* B. et C. 2270

North Amer. Fungi n. 420 (bis). — Peritheciis sparsis, breviter hysteriiformibus, epidermide tectis; sporulis oblongo-ellipticis, hyalinis.

Hab. in caule Nepetæ Catariæ in Pensylvania Amer. bor. (Michener).

5. **Diplodina acervata** (Lév.) Sacc. *Diplodia acervata* Lév. Ann. Sc. Nat. 1848, p. 259. — Peritheciis innatis, erumpentibus, cæspitosis, globosis, atris, opacis, intus albis, primum astomis, demum collo exerto pertuso donatis; sporulis minutis ovato-ellipsoideis, subhyalinis, 1-septatis. 2271

Hab. ad caules aridos Astragali Monspeliensis, Montredon prope Marseille in Gallia.

6. **Diplodina Dianthi** (Ces.) Sacc. *Diplodia Dianthi* Ces. Bot. Zeit. 1855, p. 286. — Subepidermica, gregaria, minutissima; peritheciis astomis; sporulis ovalibus, hyalinis, 1-septatis. 2272

Hab. in caulibus Dianthi proliferi in Italia superiore. — «An *Ascochyta?*».

7. **Diplodina Galii** (Niessl) Sacc. *Diplodia Galii* Niessl Mähr. p. 33. — Peritheciis minutis, sparsis, subglobosis, atris, epidermide tectis, erumpentibus; sporulis ovatis, 2-guttatis, hyalinis, demum constricto-1-septatis, 7-8 ≃ 4-5. 2273

Hab. in caulibus siccis Galii Mullaginis in Moravia.

8. **Diplodina ascochytoides** Sacc. Mich. II. p. 106 (sub *Diplodia*). — Peritheciis gregariis, erumpenti-superficialibus, globulosis, breve papillatis, 1/6 mill. diam.; contextu molliusculo, parenchymatico, fuscidulo; sporulis oblongis, utrinque rotundatis, 15-17 ≃ 6, valde inæquilateralibus, didymis, leniter constrictis, 2-4-guttulatis, dilute chlorinis. 2274

Hab. in caulibus Schoberiæ maritimæ, sociâ *Pleospora* prope Pas-de-Calais in Gallia (Gaudefroy).

9. **Diplodina Ellisii** Sacc. *Diplodia hyalospora* C. et Ell. in Grevill. — Peritheciis tectis, minimis, punctiformibus, membranaceis; sporulis elongato-ellipticis, 1-septatis, subconstrictis, hyalinis, 20-26 ≃ 9, rarius 2-septatis. 2275

Hab. in caule Chenopodii, New Jersey in Amer. bor.

10. **Diplodina cassubica** Sacc. *Phoma? cassubica* Sacc. Mich. I. p. 125. — Peritheciis gregariis, epidermide velatis, dein semi-erumpentibus, astomis, longitudinaliter oblongis, subcarbonaceis, aterrimis; sporulis cylindraceis, 18-20 ≃ 2, utrinque obtusiusculis, curvulis rectisve, 1-septatis, non constrictis, hyalinis; basidiis dense fasciculatis, 50-60 ≃ 3, filiformibus, guttulatis, hyalinis. 2276

Hab. in caule Viciæ cassubicæ, Driesen, Brandenburg (P. Magnus).

11. **Diplodina deformis** (Karst.) Sacc. *Diplodia deformis* Karst. Symb. Fenn. XV. pag. 156. — Peritheciis sparsis, sæpe 2–4-aggregatis, emergentibus, variis, subastomis, atris, 0,3 mill. d.; sporulis elongatis, vel oblongo-fusoideis, rectis, 1-septatis, hyalinis vel dilutissime flavidis, 9-13 ≃ 2-3. 2277

Hab. in ramulis emortuis Sambuci racemosæ in Fennia.

12. **Diplodina periglandis** (C. et H.) Sacc. *Diplodia periglandis* Cooke et Harkn. in Grev. 1881 p. 83. — Erumpens; peritheciis globosis, atris, demum subliberis; sporulis ellipticis, uniseptatis, hyalinis, medio non constrictis, 15 ≃ 4. 2278

Hab. in glandibus quercinis in California.

13. **Diplodina dracænicola** Sacc. Cfr. Grev. 1881, p. 48. — Sparsa, minuta atro-maculosa; sporulis oblongis, constricto-1-septatis, hyalinis, 15-17 μ. longis. 2279

Hab. in foliis Dracænæ cultæ in Britannia, socio *Myxosporio dracænicolo* B. et Br.

14. **Diplodina graminea** Sacc. Mich. II. p. 207 (sub *Diplodia*). — Peritheciis minutis, globoso-conoideis, erumpentibus, sæpe 2–4 seriatim connatis, nigris; sporulis oblongis, 15–16 ≃ 5–7, constricto-didymis, loculis quandoque secedentibus, hyalinis. 2280

Hab. in culmis Cynodontis Dactyli, Padova in Italia bor.

15. **Diplodina arundinacea** Sacc. *Pleosporæ* (Leptosph.) *arundinaceæ* Micropycnidium Fuck. Symb. p. 137. — Peritheciis innato-erumpentibus, sæpe cæspitulosis, papillatis; sporulis oblongis, 1-septatis, hyalinis, 12 ≃ 2. 2281

Hab. in culmis Phragmitis communis in Rhenogovia.

16. **Diplodina Parmeliæ** (B. et C.) Sacc. *Diplodia Parmeliæ* B. et C. North Amer. Fungi n. 421 (bis). — Peritheciis depressis, laxe lanatis, apice perforatis; sporulis medio constrictis, articulis inæqualibus, hyalinis. 2282

Hab. parasitica in Parmelia quadam in Carolina infer. — «An potius *Chætodiplodiæ* species?».

CYSTOTRICHA B. et Br. Ann. N. H. n. 448. (Etym. *cyste* vesica, et *thrix* seta). — Perithecia superficialia vel subsuperficialia, lignicola, horizontaliter elongata, longitrorsum dehiscentia. Sporulæ oblongæ, 1-septatæ, hyalinæ, basidiorum filiformium articulato-moniliformium lateribus insertæ. — Hinc ad *Subcupulatas*, illic ad *Nectrioideas* forte accedit.

1. **Cystotricha Striola** B. et Br. Ann. N. H. n. 448, t. XII. fig. 10. 2283
— Peritheciis punctiformibus vel linearibus, sæpe breve seriatis, nigro-subrubescentibus, disco rubente: basidiis cylindricis, valde evolutis, sursum 1-2-ramosis, articulato-moniliformibus, articulis subcuboideis: sporulis pleurogenis oblongis, continuis, dein 1-septatis, pellucidis.

Hab. in ligno decorticato in Britannia. — Fructificatio fere *Tuberculariæ* sed perithecium adest.

2. **Cystotricha stenospora** B. et C. North Amer. Fungi n. 450(bis). 2284
— Linearis vel hysteriiformis inter fibras ligneas erumpens: basidiis moniliformibus: sporulis lateralibus uniseptatis, breviter fusiformibus, hyalinis.

Hab. in ligno dealbato Alni in Pensylvania (Michener).

RHYNCHOPHOMA Karst. Hedw. 1884. p. 19. em. (Etym. *rynchos* rostrum, et *Phoma*). — Perithecia subglobosa, rostrata, erumpentia vel subsuperficialia. Sporulæ ovato-oblongæ distincte vel obsolete 1-septatæ, hyalinæ. — Est *Phoma* sed perithecio rostrato et sporulis bilocularibus.

1. **Rhynchophoma trachelina** (Lév.) Sacc. *Sphæronema trachelium* 2285
Lev. Ann. Sc. Nat. 1846, p. 280. — Peritheciis elongatis, cylindricis, rugosis, apice pertusis stromate atro subcarbonaceo impositis; sporulis minutissimis, ovatis, bilocularibus.

Hab. ad truncos putridos in Hispaniola (Poiteau). — Perithecia 3-4 mill. alta.

2. **Rhynchophoma crypta** Karst. Hedw. 1884. p. 19. — Perithecis 2286
sparsis, ligno alte innatis, subsphæroideis vel ovoideis, atris, 100-150 μ. latit., rostro teretiusculo, gracillimo, perithecio duplo quadruplove longiori, apice ultimo conoideo prominulo: sporulis ellipsoideis simplicibus vel guttulatis, subinde spurie tenuiter uniseptatis, 6-8 = 3-4.

Hab. in ligno carioso Tiliæ ulmifoliæ, Aboa Fenniæ.

3. **Rhynchophoma Radula** (B. et C.) Sacc. *Sphæronema radula* B. 2287
et C. North Amer. Fungi n. 402. — Erumpens, conica, compressa: apice sæpe truncato ob sporulas adhærentes pallide roseo: sporulis brevibus, fusiformibus, hyalinis, uniseptatis vel endochromate utrinque retracto.

Hab. in ramis Aceris rubri in Carolina infer. Amer. bor.

REPERTORIUM

SPHÆRIOIDEARUM HYALODIDYMARUM

SECUNDUM MATRICES

Obs. A. indicat *Ascochyta.* — Ac. *Actinonema.* — C. *Cystotricha.* — D. *Darluca.* — Di. *Diplodina.* — R. *Robillarda.* — Rh. *Rhynchophoma.*

Numeri 1123 — 2287 citantur 123 — 287

Acacia — A. 179.
Acer — Di. 268. — Rh. 287.
Æsculus — Di. 269.
Agrostis — D. 263. 264.
Allium — D. 266.
Alnus — C. 284.
Althæa — A. 208.
Ammophila — A. 249.
Andropogon — A. 253.
Anemone — A. 187.
Anethum — A. 214.
Anona — A. 160.
Anthyllis — A. 200.
Aquilegia — A. 191.
Arauja — A. 238.
Arbutus — A. 161.
Aristolochia — A. 257.
Armoracia — A. 194.
Arrenatherum — A. 252.
Astragalus — Di. 271.
Astrantia — A. 212.
Aucuba — A. 147. 148.

Berberis — A. 124. 182.
Bignonia — A. 157. 158.
Brassica — A. 195.
Bromus — D. 263.
Bupleurum — A. 215.
Buxus — A. 169. 170.

Calycanthus — A. 165.
Calystegia — A. 225.
Carpinus — A. 171.
Centaurea — A. 218.
Cephalanthus — A. 164.
Cercis — A. 126.
Chenopodium — Di. 275.
Chlora — A. 220.
Chondrilla — D. 263.
Cicer — A. 197. 198.
Cineraria — A. 219.
Citrus — A. 153. 154.
Clematis — A. 188.
Cnicothamnus — A. 155.
Cornus — A. 146.
Coronilla — A. 125.
Corylus — A. 172.
Cratægus — A. 130. — R. 258.

Cynodon — Di. 280.
Cyperaceæ — A. 244.
Cytisus — A. 127. 180. — D. 264.

Datura — A. 224.
Dianthus — A. 203. — Di. 272.
Digitalis — A. 229. 230.
Donax — A. 248.
Dracæna — Di. 279.

Elæagnus — A. 162.
Eryngium — A. 213.
Erythronium — A. 241.
Euphorbia — D. 263.
Evonymus — A. 236.

Ficus — A. 175. — R. 256.
Fragaria — A. 205.
Fraxinus — A. 134. 135.

Galega — D. 263.
Galium — Di. 273.
Garrya — A. 167.
Graminaceæ — A. 252.

Hedera — A. 149. 185.
Helleborus — A. 189.
Hypericum — A. 232.

Ipomæa — D. 263.
Iuncus — D. 263.

Knautia — A. 216.

Laburnum — D. 263.
Lamium — A. 231.
Lemna — A. 242.
Ligustrum — E. 136.
Limonia — A. 152. 153.
Lonicera — A. 141. 142. 143.
Luzula — A. 243. — D. 263.

Magnolia — A. 123.
Malva — A. 210.
Manioht — A. 186.
Marchantia — A. 254.
Menispermum — A. 240.
Momordica — A. 233.
Monocotyledoneæ — R. 261.
Myrtaceæ — A. 159.

Nepeta — Di. 270.
Nerium — A. 166.
Nicotiana — A. 223.
Nymphæa — A. 192.

Oreodaphne — A. 163.
Oreoselinum — D. 263.
Orobus — A. 199.
Oryza — A. 250.
Oxalis — D. 263.

Paliurus — A. 145.
Panicum — D. 263.
Parmelia — Di. 282.
Passiflora — A. 179. 211.
Paulownia — A. 156.
Petunia — A. 222.
Pharbitis — A. 226.
Phaseolus — A. 197.
Philadelphus — A. 133.
Phragmites — Di. 281.
Physalis — A. 221.
Pinus — A. 131.
Pisum — A. 196. 197.
Plantago — A. 234.
Polygonum — A. 235.
Populus — A. 176. 177. — D. 265.
Potentilla — A. 204. — D. 263.
Prunus — A. 132. — D. 263. — R. 259.
Pycnanthemum — D. 263.

Quercus — A. 173. 174. — D. 263. — Di. 278.

Rhynchosia — A. 202.
Rhynchospora — D. 263.
Robinia — A. 128.
Rosa — A. 129. — R. 257.
Rubiaceæ — R. 260.
Rubus — A. 206. 207. — R. 355. — D. 263.

Rumex — A. 236.

Salix — A. 178. — D. 264. — Di. 267.
Salvia — A. 236.
Sambucus — A. 141. — Di. 277.
Saponaria — A. 201.
Sarothamnus — A. 181.
Schoberia — Di. 274.
Senecio — V. 217.
Sorghum — A. 246. 247.
Spiræa — A. 209.
Stapelia — A. 239.

Tecoma — A. 183.
Tilia — Ph. 286.
Trollius — A. 190.

Ulmus — A. 168.
Uvaria — R. 262.

Verbascum — A. 227. 228.
Viburnum — A. 137. 138. 139. — R. 258.
Vicia — Di. 276.
Viola — A. 193. — D. 263.
Vitis — A. 150. 151. 183.

Weigelia — A. 144.

Zea — A. 245.

Sect. 5. **Phragmosporæ** Sacc.

Sporulæ oblongæ v. fusoideæ, 2–pluriseptatæ, fuscæ, rarius hyalinæ.

I. Phæophragmiæ Sacc.

Sporulæ fuligineæ v. olivaceæ.

Clavis analytica generum.

* Perithecia discreta.

A) Sporulæ invicem liberæ.

§ Sporulæ muticæ.

† Perithecia papillata v. subastoma.

Hendersonia. Perithecia typice subcutanea, ostiolata, subiculo nullo insidentia. — β. *Sporocadus:* perithecia majora; sporulæ amplæ massarioideæ. — γ. *Hendersoniella:* perithecia epixyla.

Coutureа. Perithecia superficialia, subastoma, subiculo stellato melioloideo insidentia.

†† Perithecia apice ample operculatim circumscissa.

Angiopoma. Perithecia superficialia obconico-elongata, atra, hirta.

Lichenopsis. Perithecia immersa, subglobosa, extus pallida, glabra.

§§ Sporulæ ciliatæ.

Cryptostictis. Sporulæ utrinque 1-aristatæ.

B) Sporulæ plures basi stellatim conjunctæ.

Prosthemium. Perithecia tecta, subcarbonacea, globoso-depressa.

** Perithecia stromate dothideaceo immersa.

Hendersonula. Est Hendersonia stromate dothideaceo instructa.

II. Hyalophragmiæ Sacc.

Sporulæ hyalinæ v. subhyalinæ.

Stagonospora. Perithecia subglobosa, tecta, plerumque minuta.

Mastomyces. Perithecia verticaliter elongata, erumpenti-superficialia, majuscula.

HENDERSONIA Berk. Suppl. p. 208, t. XI, f. 9, em. (Etym. ab E. G. Henderson botanophilo anglo). — Perithecia subcutaneo-erumpentia vel subsuperficialia, globoso-papillata vel depressa, membranacea vel subcarbonacea, atra. Sporulæ oblongæ vel fusoideæ, 2–pluriseptatæ, olivaceæ vel fuligineæ. — Adsunt formæ, in posterum in genera propria merito seponendæ, e. g. formæ peritheciis

epixylis subsuperficialibus (*Hendersoniella*); formæ massarioideæ sporulis maximis (*Sporocadus* Sacc.). Species hyalophragmias in genus proprium (*Stagonospora*) seposui.

I. *Eu-Hendersonia.*

Perithecia tecta, minora; sporulæ mediocres vel minutæ.

A) *In ramis Dicotyledonearum lignosarum.*

1. **Hendersonia biseptata** Sacc. Mich. I. p. 95. — Peritheciis gregariis subcutaneo-erumpentibus, 80-90 μ. diam., globulosis, papillatis, atris; contextu membranaceo-carbonaceo, parenchymatico, distincto; sporulis ellipsoideis, initio stipitellatis, continuis, dein 3-locularibus, vix constrictis, loculo medio quandoque breviore, 10-12 ≃ 5-6, fuligineis. 2288

Hab. in ramulis Jasmini officinalis, Vittorio in Ital. bor. — Forma β. **Capparidis**: sporulis ad septa magis constrictis, 14-15 ≃ 7-7½. In sarmentis Capparidis, Conegliano (Spegazzini). — Forma γ. **Pruni domesticæ**: sporulis leniter constrictis, 10 ≃ 4-5, dilutioribus. In ejusdem ramulis, Padova.

2. **Hendersonia pauciseptata** B. et C. North Amer. Fungi n. 425. — Peritheciis applanatis, basi epidermide cinctis; sporulis oblongis, triseptatis, utrinque obtusis vel basi acutatis, hyalino-marginatis, 7-12 ≃ 2½-4, varie pedicellatis. 2289

Hab. in ramis Liriodendri, Lauri Benzoin, Populi dilatatæ, Lagerstrœmiæ in Carolina infer. et in Pensylvania Americæ sept. — Habetur var. in Rhoe glabra. «De sporularum colore nulla mentio, an ergo genuina *Hendersonia?*».

3. **Hendersonia vagans** Fuck. Symb. Myc. p. 392, *Hend. Piri* Fuck. En. Nass. n. 415 cum icone. — Peritheciis oblongis epidermidem dein erumpentibus, atris; sporulis longe stipitatis, oblongo-ellipticis, quadrilocularibus, flavis. 2290

Hab. in cortice ramorum plurium arborum, e. g. Pruni domesticæ, Piri communis, Salicis, Sorbi, Fraxini etc. in Germania et Italia bor.

4. **Hendersonia ulmea** Karst. Symb. Myc. Fenn. XV. p. 158. — Peritheciis subgregariis cortici plus minus insculptis, rotundatis, ut plurimum inæqualibus, sæpius papilla brevissima obtusa instructis, glabris, atris, 0,4-0,5 mill. d.; sporulis ellipsoideis vel oblongatis, utrinque plus minus attenuatis, 3-septatis, fulvis dein fulvo-fuligineis, 14-18 ≃ 6-8. 2291

Hab. ad ramos exsiccatos Ulmi, Aboa Fenniæ.

5. **Hendersonia platypus** Ell. et Everh. Torr. Bot. Cl. 1884, p. 73. 2292
— Peritheciis punctiformibus vel subelongatis, nigris maculâ oblongâ vel subrotundâ albâ, 2-4 ≃ 1-2 mill. insidentibus; sporulis oblongo-ellipsoides, sed satis ludibundis, plerumque 12-15 ≃ 3,5-4, subinde longioribus et angustioribus, 19 ≃ 3, 3-septatis, flavido-brunneis; basidiis basi incrassatis, 7 μ. longis.

Hab. in sarmentis Rubi villosi et R. canadensis, Cobden Illinois Amer. bor. (F. S. Earle). — Ab *H. sarmentorum* probe diversa.

6. **Hendersonia sarmentorum** West. Bull. de Brux. XVIII. n. 60, f. 2. 2293
— Peritheciis sparsis, numerosis, brunneo-fuscis, tectis, applanatis, poro dehiscentibus; sporulis ellipsoideis, brunneis, triseptatis, 10-12 ≃ 4-5, basidiis hyalinis suffultis.

Hab. in sarmentis ramisve plurium fruticum et arborum, e. g. Vitis, Hederæ, Rubi, Ampelopsidis, Aceris, Galegæ, Jasmini, Berberidis, Lauri, Ailanthi, Populi in Italia boreali, Britannia, Gallia et America bor. — Var. **Sambuci**: sporulis 12-14 ≃ 6. In ramis Sambuci in Arduennis. — Sequentes formas in agro tarvisino et patavino observavi. — **Hederæ**: sporulis ellipsoideis, 3-septatis, 10 ≃ 5, fuligineis. — **Aceris campestris**: sporulis ut supra, 12 ≃ 4. — **Ailanthi** (in petiolis): sporulis ut supra, 11 ≃ 4. — **Lauri**: sporulis ut supra, 10-12 ≃ 4½-5. — **Ampelopsidis hederaceæ**: sporulis ut supra, 10-11 ≃ 5. — **Salicis vitellinæ**: sporulis ut supra, 10-12 ≃ 4. — **Berberidis**: sporulis ut supra, 10-12 ≃ 4-5. — **Populi nigræ** (in ligno): sporulis ut supra, 10-11 ≃ 5. (An *Hendersoniella?*). — **Jasmini officinalis**: sporulis ut supra, 10-12 ≃ 4-4½. — **Calycanthi floridi**: sporulis ut supra, 12 ≃ 4.

7. **Hendersonia Gleditschiæ** Kickx Fl. Crypt. Fl. I. p. 368. — Peri- 2294
theciis nigris, erumpentibus, 2-8-aggregatis, poro pertusis; sporulis ellipsoideis, obtusis, brunneis, 3-septatis; basidiis filiformibus.

Hab. in ramulis et spinis Gleditschiæ Triacanthi in Belgio.

8. **Hendersonia Wistariæ** Cooke in Rav. Amer. Fungi 782, Grev. XII. 2295
p. 24. — Sparsa, tecta, dein erumpens; peritheciis subglobosis vel depressis, atro-fuscis; sporulis lanceolatis, triseptatis, fuscis, 10 ≃ 3.

Hab. in ramulis Wistariæ sinensis in Carolina inferiore Americæ borealis.

9. **Hendersonia mammillana** (Fr.) Curr. Linn. Trans. 1859, XXII. 2296
fig. 85, *Sphæria mammillana* Fr. S. M. II. p. 487. — Peritheciis subsparsis, nigris, globoso-depressis, epidermide clypeato-nigrifi-

cata tectis; sporulis brunneis, triseptatis, vel endochromate 4-partito, magnitudine variis, 12–18 μ. longis.

Hab. in ramis Rhamni in Suecia et Britannia.

10. **Hendersonia rhamnicola** Cooke Præcursor Monogr. Henders. p. 21. 2297
— Peritheciis .....; sporulis elongato-ellipticis, triseptatis, fuscis, 20 ≃ 9.

Hab. in ramis Frangulæ in Britannia (?).

11. **Hendersonia decipiens** Thüm. Myc. Univ. n. 577. — Peritheciis 2298
gregariis, rotundatis vel oblongis, leniter elevatis, epidermide tectis, dein liberis, perforantibus, pusillis, atris, in epidermidis partibus expallescentibus; sporulis numerosis, longo-ovoideis vel subovatis, utrinque obtusis, quadriloculariibus, loculis æqualibus, sine nucleo, sessilibus, dilute fuscis, subdiaphanis, 13–14 ≃ 6–6,5.

Hab. in ramulis emortuis, adhuc pendulis, Corni albæ, Bayreuth in Bavaria. — Differt a *H. Corni* Fuck. sporulis sessilibus, fuscis, ovoideis non nucleatis.

12. **Hendersonia Fiedleri** West. in Kickx Fl. Crypt. Flandr. I. p. 389, 2299
H. Corni Fuck. En. F. Nass. n. 416 cum icone. — Peritheciis globosis, initio epidermide tectis, nigris; sporulis stipitatis, oblongis, 15–18 ≃ 4, 3-septatis, fuligineis, loculo infero hyalino.

Hab. in ramulis Corni sanguineæ, C. albæ in Belgio, Italia bor., Bavaria, Britannia, Germania. — *H. Fiedleri* in Rabh. F. E. n. 1847 est p. p. *Pestalozzia Veneta* **P. tricuspis* Sacc.

13. **Hendersonia Viburni** Ellis Bull. Torr. Bot. Club. 1882, p. 133. 2300
— Peritheciis in cæspitulos valsoideos innato-erumpentes digestis; sporulis ellipticis, brunneis, 3-septatis, 13–15 ≃ 5,5, sporophoris duplo triplove longioribus suffultis.

Hab. in Viburno Lentagine, Decorah, Iowa Amer. bor.

14. **Hendersonia Syringæ** Fr. Summa Veg. Scand. p. 416. — Gre- 2301
garia, suberumpens; peritheciis subellipticis depressis, rugulosis, nigris, ostiolo subtili; sporulis ..... non descriptis.

Hab. in ramulis emortuis Syringæ vulgaris in Suecia, Austria infer. — Var. **fructicola** Thüm. In fructibus Syringæ, Bayreuth Bavariæ.

15. **Hendersonia occulta** (Lib.) Fr. Sacc. Mich. II. p. 629, *Sphæria* 2302
occulta Lib. nec Fr. — Peritheciis gregariis, subcutaneo-erumpentibus, globulosis, 200 μ. diam., pertusis; sporulis cylindraceo-clavulatis, 25 ≃ 3, rectis curvulisve, apice obtusioribus, 5-septatis, non constrictis, olivaceo-fuligineis, basidiis fasciculatis, cylindraceo-nodulosis, polymorphis subhyalinis suffultis.

Hab. in ramis corticatis Syringæ, Malmedy in Arduennis. — *Sphæria occultata* Fr. El. II. p. 72 potius *Diaporthem resecantem* spectare videtur.

16. **Hendersonia Pubentis** Cooke Præcursor Monogr. Henders. p. 22, 2303
Hend. Sambuci Peck in 25 New York Report p. 87, non West. — Peritheciis numerosis, sparsis, minutis, nigris, initio epidermide tectis, dein erumpentibus; sporulis elliptico-oblongis, coloratis, triseptatis, 12 ≃ 5.

Hab. in ramis Sambuci pubentis in America boreali. — Sporulæ initio 1-septatæ.

17. **Hendersonia Sambuci** Müll. (sec. exempl. Winteri in meo Her- 2304
bario), Sacc. Mich. I. p. 213. — Peritheciis gregariis, minutis, globoso-papillatis, nigris, intus epidermide tectis dein liberis; sporulis oblongo-fusoideis, 10-12 ≃ 3, 1-3-septatis, olivaceo-fuligineis.

Hab. in ramis corticatis Sambuci nigræ, Selva in Italia sup. Germania et Sibiria. — Var. β. **detecta**: sporulis 16-18 ≃ 2-2½, 3-septatis, olivaceis. In ramis Sambuci decorticatis in Gallia (Letendre).

18. **Hendersonia diplodioides** Ell. et Everhart. in litt. ad me. — Pe- 2305
ritheciis subdeplanatis, ⅓ mill. diam., epidermide rupta cinctis; sporulis ellipticis, brunneo-fuligineis, biseptatis, ad septa plerumque leviter constrictis, 22-30 ≃ 18-20; basidiis 20-25 ≃ 5 μ. longis.

Hab. in cortice Sambuci glaucæ prope Washington Amer. bor. (W. N. Suksdorf).

19. **Hendersonia hirta** (Fr. p. p.) Curr. Simpl. Sphær. p. 324, *Sphæ-* 2306
ria hirta Fr. S. M. II. p. 483, p. p. — Peritheciis tectis, pusillis, depressis, subirregularibus, subtiliter villosis, nigricantibus; ostiolo erumpente; sporulis oblongis, 3-septatis, brunneis, 12-15 μ. longis.

Hab. in ramis emortuis Sambuci racemosæ in Suecia et Germania. — Probabiliter status pycnidicus *Massariæ hirtæ*. Cfr. Syll. II. p. 9.

20. **Hendersonia Peckii** Clinton in Peck Rep. on the St. Mus. N. Y. 2307
— Peritheciis minutis, punctiformibus, epidermide tectis, erumpentibus, nigris; basidiis longis exilibus; sporulis oblongis, dilute coloratis, triseptatis, 12-18 μ. longis, basidio brevioribus (a quo mox deciduis).

Hab. in ramis vivis Loniceræ flavæ, Buffalo Amer. bor.

21. **Hendersonia Mariæ** Clinton in Peck Rep. on the St. Mus. N. Y. 2308
— Peritheciis globulosis, minutis, atris; sporulis oblongis, subinde

leniter constrictis, 5-septatis, 25 μ. longis, coloratis, loculo extimo utroque hyalino; basidiis persistentibus, sporulâ brevioribus.

Hab. in ramis virentibus Loniceræ flavæ, Buffalo Amer. bor. (Clinton).

22. **Hendersonia Loniceræ** Fries Summ. Veg. Sc. p. 146, sec. Lamb. Fl. Myc. Flandr. — Peritheciis pustuliformibus, brunneis, nitidis, tectis, poro dehiscentibus; sporulis elongatis, obtusis, triseptatis. 2309

Hab. in ramulis Loniceræ Caprifolii, Liege in Belgio et in Suecia. — Color sporularum ignotus: an ergo *Stagonospora?* Sec. Cooke Præc. p. 20 *Diplodia polymorpha* De Not. huc spectat, quæ vero *Camarosporium.*

23. **Hendersonia obtusa** Cooke Præcursor Hend. p. 20, *Hend. Loniceræ* Cooke in Grevillea IV. p. 115, nec Fr. — Peritheciis gregariis, minutis, primo tectis, atris; sporulis ovatis oblongisve, brunneis, 2-3-septatis, non constrictis (forte tantum plasmate 2-3-partito). 2310

Hab. in ramulis Loniceræ diversifoliæ Saharunpore in India orient.

24. **Hendersonia Vitis** (Schulz.) Sacc. *Cheilaria Vitis* Schulzer v. Müggenburg in Pirotta I Funghi parass. dei Vitigni p. 67. — Peritheciis magnis, nigris, gibbosis, demum cupuliformibus; basidiis simplicibus, molliusculis, luteolis, monosporis; sporulis oblongis, apice obtusis, plerumque 5-septatis, pallide brunneis, 22-28 ≃ 6-8. 2311

Hab. in ramis Vitis viniferæ in Hungaria (Schulzer).

25. **Hendersonia Vitis-silvaticæ** (Cast.) Catt. I Funghi parass. dei Vitigni p. 61, *Sphæria Vitis-silvaticæ* Castagne Catal. pl. Marseille p. 173. — Peritheciis rotundis vel ovatis, nigris, epidermide rupta cinctis, prominulis; ostiolo conico; basidiis monosporis; sporulis ovoideis, distinctissime 2-septatis. 2312

Hab. in sarmentis Vitis viniferæ var. silvestris, Marseille in Gallia (Castagne). — An *Stagonospora?*

26. **Hendersonia ampelina** Thüm. Pilze des Weinstockes p. 147. — Peritheciis gregariis, liberis, plano-orbiculatis vel pseudo-disciformibus, leniter elevatis vel subcompressis, sublevibus, atris; sporulis subclavatis vel clavato-lanceolatis, utrinque angustatis, subacutatis, quadri- raro triseptatis, non pedicellatis, dilute fuscescentibus, subpellucidis, 14-16 ≃ 6-7. 2313

Hab. in sarmentis emortuis Vitis æstivalis, Albany in America septentr. (Peck).

27. **Hendersonia longipes** B. et C. North Amer. Fungi n. 425bis. — 2314

Peritheciis demum liberatis, collapsis; sporulis oblongis, angustis, triseptatis, pedicellis longissimis ex hyphis decumbentibus septatis oriundis.

Hab. in ramis Vitis et Rosæ in Carolina sup. — An *Stagonospora?*

28. **Hendersonia fissa** (Fr.?) Sacc. *Sphæria fissa* Fr.? Hazl. Sph. Ros. p. 215, fig. 21-22. — Peritheciis globosis, stromate villoso-furfuraceo insertis, subconfluentibus, rugulosis, papillatis, demum fisso-dehiscentibus; sporulis oblongo-ellipsoideis, utrinque rotundatis, 3-septatis, loculis interioribus fuligineis, extimis subhyalinis, 13-14 μ. longis; basidiis sporulâ duplo longioribus, articulatis. 2315

Hab. in ramis Rosarum in Hungaria.

29. **Hendersonia Rubi** West. (ut var. *H. sarmentorum*), Sacc. Mich. I. p. 214. — Peritheciis sparsis vel gregariis, globoso-depressis, papillulatis, atris, subcutaneo-erumpentibus; sporulis ellipsoideis, 12-18 ≃ 5-6, 3-septatis, fuligineis, loculo infimo pellucido. 2316

Hab. in sarmentis Rubi fruticosi, Colli Euganei in Italia bor., in Belgio et Gallia. — Affinis *Hendersoniæ sarmentorum* West. a qua tamen satis differt.

30. **Hendersonia europæa** Speg. F. Arg. Pug. IV. n. 303. — Peritheciis lenticulari-subglobosis, primo tectis, dein erumpentibus, immersis, parvulis, 200-300 μ. d., densiuscule gregariis, membranaceo-subcarbonaceis, atris, indistincte ostiolatis, in senectute sæpe irregulariter ruptis; sporulis ellipticis, majusculis, 38-40 ≃ 15, opace fuligineis, 3-septato-constrictis, loculis 2 extimis minoribus pallidioribusque subsessilibus, paraphysibus vix longioribus, filiformibus, hyalinis obvallatis. 2317

Hab. in ramis putrescentibus Rubi discoloris ad sepes, Boca del Riachuelo. — Species a genere *Hendersonia* nonnihil recedens.

31. **Hendersonia Tiliæ** Lév. in Ann. Sc. Nat. 1846, p. 288. — Peritheciis gregariis intus extusque nigris, cortice immersis, ostiolo minute papillatis; sporulis elliptico-elongatis, 2-3-septatis, brunneis. 2318

Hab. in cortice Tiliæ europææ, Paris in Gallia.

32. **Hendersonia coryneoidea** Cooke et Harkn. in Grevill. 1881, p. 128. — Peritheciis sparsis, tectis, dein epidermidem stellatim findentibus; sporulis magnis, lanceolatis, 5-7-septatis, loculis ultimis hyalinis, ceteris olivaceo-fuscis, 50 ≃ 10. 2319

Hab. in ramis Eucalypti in California. — Sporulæ *Corynei* sed perithecio inclusæ.

33. **Hendersonia Eucalypti** Cooke et Harkn. in Grevill. 1881, p. 128. 2320
— Peritheciis in maculas orbiculares collectis, immersis; sporulis ellipticis, infra attenuatis, sursum subclavatis, triseptatis, fuscis, 20 ≃ 6, dein erumpendo inquinantibus.

Hab. in ramulis et foliis emortuis Eucalypti in California. — Forma in ramis præbet perithecia magis sparsa et sporulas saturatius coloratas, ceterum non diversa.

34. **Hendersonia Tecomæ** Sacc. Mich. I. p. 212. — Peritheciis (ge- 2321
nuinis?) epidermide tumidula et nigrificata velatis, globosis, breviter papillatis; sporulis ovato-oblongis, rectis vel curvulis, 8-11 ≃ 5, initio continuis, stipiteque brevissimo conico hyalino fultis, dein 3-septatis, non constrictis, dilute fuligineis.

Hab. in ramis Tecomæ radicantis, Conegliano in Italia bor. (Spegazzini).

35. **Hendersonia Symploci** B. et Br. F. of Ceylon n. 794. — Peri- 2322
theciis nitidis, sæpe circinantibus; sporulis fusiformibus triseptatis, 30 μ. longis.

Hab. in Symploco obtuso, Central province Indiæ orient. — «An *Stagonospora?*».

36. **Hendersonia hyalopus** B. et C. North Amer. Fungi n. 428. — 2323
Peritheciis in cæspitulos minutos congestis epidermide cinctis; sporulis brunneis fusoideis, breviusculis, obliquis, utrinque acutis, 5-septatis; pedicellis brevibus hyalinis.

Hab. in ramis Rhois copallinæ in Carolina inferiore.

37. **Hendersonia Glabræ** Cooke Præcursor Monogr. Henders. p. 21, 2324
Hendersonia pauciseptata forma *Rhois* B. et C. North Amer. Fungi. — Peritheciis.....; sporulis breviter fusiformibus, triseptatis, fuscis, 15 ≃ 6,5.

Hab. in ramis Rhois glabræ in Amer. bor.

38. **Hendersonia findens** Cooke in Grevill. (sub nom. *fissurata*). — 2325
Gregaria; peritheciis in lineas erumpentibus, epidermidem findentibus; sporulis arcte ellipticis, brunneis, triseptatis, 12 ≃ 4,5.

Hab. in cortice Fici, Darien, Georgia, in Amer. bor.

39. **Hendersonia salicina** Sacc. *Cucurbitariæ* (Melanomma) *Hender-* 2326
soniæ pycnid. Fuck. Symb. p. 172. — Peritheciis spuriis subcutaneis scutiformibus confluentibusque, 2 mill. diam., griseis, intus fuscis, compactis; sporulis longissime stipitatis, stipite mox deciduo, oblongis, antice obtusioribus, 3-septatis, flavis, 16-18 ≃ 6.

Hab. in ramis corticatis Salicis auritæ in Rhenogovia. — «An *Coryneum?*».

40. **Hendersonia Pini** Fuck. Symb. Myc. App. nec West. (quæ *Camarosporium*). — Peritheciis (?) in cortice nidulantibus, atris, demum laceratis; sporulis cum pedicello longissimo colorato, maturis oblongis, rectis, utrinque obtusis, medio quandoque parum contractis, 3-septatis, demum obscure fuscis, 24 ≃ 8. 2327

Hab. in ramis corticatis Abietis excelsæ in Hallgarter Wald Rhenogoviæ.

41. **Hendersonia rostrata** Sacc. et Ellis Mich. II. p. 572. — Peritheciis sparsis, innato-erumpentibus, globulosis, vix papillatis, contextu parallele celluloso, fuligineo; sporulis fusoideis curvulis, utrinque cuspidatis, 3-4-septatis, ochraceo-olivaceis, utrinque sensim pallidioribus, totis 50-55 ≃ 3, parte colorata, 30-35 μ. longa; basidiis brevibus, hyalinis, interdum furcatis. 2328

Hab. in cortice ramorum Pini, Newfield N. J. in Amer. bor. (Ellis). — *Hendersoniæ fusarioidi* analoga.

42. **Hendersonia fusarioides** Sacc. Mich. I. p. 213. — Peritheciis e peridermio dealbato erumpenti-superficialibus atris, globulosis vel (collabascendo?) subcupularibus, epapillatis; sporulis in basidiis ramosis furcatisve acrogenis, fusiformibus, 35-38 ≃ 4-5, subinæqualibus, curvulis, 3-5-septatis, pallide fuligineo-olivaceis, loculis extimis hyalinis. 2329

Hab. in cortice duriore Robiniæ Pseudacaciæ, Conegliano in Ital. bor., et Quercus Suberis in Algeria (Spegazzini). — Species *Hendersoniæ Arcu* B. et. Br. cognata, at contextu fuligineo nec cæruleo, sporulis subolivaceis, sæpius 5-septatis distincta.

43. **Hendersonia exigua** Cooke in Grevillea et F. Brit. II. n. 24 cum icone. — Peritheciis sparsis, minutis, punctiformibus, membranaceis, nigro-brunneis, leniter applanatis, 85 μ. diam.; sporulis minutis, ellipticis, biseptatis, pallide brunneis, 10-12 μ. longis. 2330

Hab. in cortice leviore in Britannia.

B. *In foliis fructibusque Dicotyledonearum lignosarum.*

44. **Hendersonia Magnoliæ** Sacc. Mich. I. p. 216. — Maculis arescendo candicantibus, irregularibus, brunneo-marginatis; peritheciis remote sparsis, punctiformibus, globoso-lenticularibus, 150 μ. diam., pertusis; sporulis oblongo-fusoideis, 12-16 ≃ 3-3½, utrinque acutiusculis, 3-septatis, non v. paullulum ad septum medium constrictis, olivaceis. 2331

Hab. in foliis languidis Magnoliæ grandifloræ, Treviso in Ital. bor., et Perpignan in Gallia.

45. **Hendersonia Henriquesiana** Sacc. et Roum. Rel. Myc. Libert. Ser. IV. n. 148. — Peritheciis epidermide velatis, globoso-depressis, atris, $^1/_4$ mill. diam.; sporulis fusoideis, utrinque acutiusculis, rectis, 14-18 ≃ 4-6, 3-septatis, melleo-fuligineis, loculo infimo hyalino; basidiis filiformibus fasciculatis, hyalinis, 20-22 ≃ 2. 2332

Hab. in fructibus putrescentibus Rosæ villosæ, Malmedy in Arduennis (Libert). — Ad *Hendersoniam Fiedleri* accedit.

46. **Hendersonia vulgaris** Desmz. 22 Not. p. 12. — Epiphylla; peritheciis minutis, erumpenti-innatis, globoso- vel ovoideo-depressis, nigris, nitidis, vertice dein ruptis, in macula polymorpha, albida vel grisea exarida subgregariis; sporulis ellipsoideis, obtusis, 15 ≃ 6,5, 3-septatis, fuscidulis. 2333

Hab. in foliis languescentibus Rubi et Populi in Gallia.

47. **Hendersonia theicola** Cooke in Grevillea. — Peritheciis globosis, nigris, prominulis, apice pertusis, sparsis vel subgregariis; sporulis cylindricis, utrinque rotundatis, triseptatis, pallide brunneis, 10-12,5 μ. longis, basidiis 10-12 μ. longis, hyalinis suffultis. 2334

Hab. in foliis Theæ, quam valde vexat, Cachar in India orientali.

48. **Hendersonia maculans** (Corda) Lév. *Sporocadus maculans* Corda Icon. fung. III. p. 23, fig. 66. — Peritheciis epi- et hypophyllis, in maculis indeterminatis albis sparsis, immersis, contextu e cellulis oblongis fuligineis constante; sporulis fusoideis, utrinque acutiusculis, 20-22 ≃ 6-7, fuligineis, basidiis bacillaribus, 25 ≃ $1^1/_2$ hyalinis suffultis. 2335

Hab. in foliis Camelliæ et Quercus Ilicis in Gallia et Bohemia.

49. **Hendersonia cornicola** (DC. p. p.) Linn. Trans. 1859, fig. 146, *Sphæria cornicola* DC. Fl. Fr. p. 147 p. p. — Maculis arescendo expallentibus; peritheciis minutis, sparsis; sporulis ellipticis, 3-septatis, pallide brunneis, 10-15 μ. longis, basidiis longis suffultis. 2336

Hab. in foliis Corni in Gallia. — *Sphæria cornicola* DC. p. p. est *Septoria*.

50. **Hendersonia foliorum** Fuck. Symb. myc. p. 392. — Peritheciis spuriis tectis, in macula pallidiori, atris, ostiolis (?) subconicis, epidermidem perforantibus, et atro-inquinantibus; sporulis longe pedicellatis, oblongis, subcurvatis, triseptatis, flavis, loculo ultimo hyalino, 15 ≃ 6-7. 2337

Hab. in foliis Quercus, Populi nigræ, Salicis Capreæ, Pruni domesticæ, Cydoniæ in Germania, Italia, Gallia. — β. **Viburni** Sacc. Mich. II. pag. 572: maculis amphigenis, angulosis, ochraceis; peritheciis sparsis; sporulis oblongis, 15–16 ≃ 5–6, 3-septatis, ad septa constrictis, æqualiter fuligineis, 4-guttatis. In foliis languidis Viburni prunifolii, Delaware Co. Pensylvaniæ (Doct. G. Martin, dedit Ellis).

51. **Hendersonia fructigena** Sacc. Mich. I. p. 212. — Peritheciis sparsis erumpentibus e globoso depressis, papillulatis, contextu minute parenchymatico dilute fuligineo; sporulis cylindraceis initio stipitellatis, 23–25 ≃ 6, 3-septatis, ad septa leniter constrictis, minute guttulatis, dilute fuligineis, stipitibus sporulâ brevioribus. 2338

Hab. in drupis arescentibus Cerasi, Padova in Ital. bor.

52. **Hendersonia Cydoniæ** C. et Ell. in Grevillea t. 99, f. 5. — Epiphylla; peritheciis minutis, atris, in maculas pallidas congestis; sporulis subfusiformibus, triseptatis, brunneis, 15–18 ≃ 6–7. 2339

Hab. in foliis vivis Cydoniæ, New Jersey in Amer. bor.

53. **Hendersonia cydonicola** Thüm. et Pass. in Thüm. Fungi pomicoli p. 114. — Peritheciis densissime gregariis, crustam fere granulatam formantibus, sæpe confluentibus v. contiguis elevatis, irregularibus, conico-subglobosis, atris, pro ratione magnis, opacis, insidentibus; sporulis regularibus, clavatis vel clavato-obovatis, vertice rotundatis, basi in stipite hyalino, stricto, subæquilongo, citissime evanido angustatis, 3-septatis, ad septa non constrictis, dilute fumosis, 10 ≃ 5. 2340

Hab. in fructu arido, non putrescente, Cydoniæ sinensis, Parma in Italia (Passerini).

54. **Hendersonia piricola** Sacc. Fungi Ven. Ser. II. p. 311. — Maculis epiphyllis, magnitudine variis, angulosis, ex albo cinerescentibus; peritheciis globoso-lenticularibus, minutis, atris, sparsis; sporulis ovoideis 2-3-septatis, olivaceis, 10 ≃ 5. 2341

Hab. in foliis languidis Piri communis, Treviso in Italia boreali. — Pycnidium *Leptosphæriæ Lucillæ*.

55. **Hendersonia Mali** Thüm. Contr. F. Litor. n. 138, tav. I. fig. 27. — Peritheciis disciformibus, epiphyllis, magnis, sparsis, planis, nigris in maculis exaridis, cinereis, orbiculatis, violaceo-cinctis; sporulis clavatis, vertice rotundatis, basi leniter angustato-acutatis, bi-triseptatis, ad septa non constrictis, pellucidis, dilute cinereis, 12–15 ≃ 4–5. 2342

Hab. in foliis vivis Piri Mali, Gorizia.

56. **Hendersonia Torminalis** Sacc. Fungi Ven. Ser. V. p. 207. — Maculis epiphyllis, fuscis, aridis, latis; peritheciis (spuriis?) lenticularibus, atris, 1/5 mill. diam., remotiusculis; sporulis oblongis, 12–15 ≃ 6, 6-locularibus, loculo basilari hyalino, ceteris fuscis, stipitibus filiformibus 12 μ. longis, hyalinis suffultis. 2343

Hab. in foliis languidis Sorbi torminalis in silva Montello Ital bor. — Affinis *Hendersoniæ foliorum* Fuck.

57. **Hendersonia Rhododendri** Thüm. Contr. Funghi Litor. n. 310. — Peritheciis sparsis, epiphyllis, globulosis, nigris in maculis valde irregularibus, arescendo fusco-griseis, zona obscuriore cinctis; sporulis lanceolato-cylindricis, utrinque subangustato-rotundatis, tri-vel quadriseptatis sed ad septa non constrictis, rectis, fuscis, 8-12 ≃ 4. 2344

Hab. in foliis vivis Rhododendri hirsuti, Plezzo in Italia boreali.

58. **Hendersonia eminens** Desm. 19 Not. p. 9. — Hypophylla, sublibera; peritheciis minutis, 200 μ. diam., subglobosis, fusco-nigris, mollibus; ostiolis papillatis, demum deciduis; sporulis ovoideo-oblongis, obtusis, pallide olivaceis, 3-septatis, 15 ≃ 7. 2345

Hab. in foliis siccis Quercus Ilicis in Gallia.

59. **Hendersonia acericola** Sacc. Mich. I. p. 216. — Maculis subcircularibus, subochraceis; peritheciis lenticularibus, 80 μ. diam., pallide melleis; sporulis oblongis, 8-10 ≃ 4, utrinque obtusiusculis, chlorinis, basidiis brevissimis suffultis. 2346

Hab. in foliis Aceris campestris, Selva in Italia bor. — Affinis *Hendersoniæ corylariæ*.

60. **Hendersonia celtifolia** Cooke, Præcursor Monogr. Henders. p. 22. — Peritheciis.....; sporulis clavatis, triseptatis, fuscis, 15-25 ≃ 8. 2347

Hab. ad folia Celtidis in America boreali.

61. **Hendersonia corylaria** Sacc. Mich. I. p. 216. — Maculis amplis variis, arescendo subochraceis brunneo-cinctis; peritheciis punctiformibus, nigris; sporulis obovatis, deorsum acutiusculis apice subrotundatis, 12 ≃ 7, 3-septatis, ad septa non (sed paullulum tandem ad medios loculos) constrictis, dilute fuligineis. 2348

Hab. in foliis languidis Coryli Avellanæ, Selva in Italia boreali.

62. **Hendersonia Alcides** Sacc. Mich. I. p. 215. — Maculis foliorum arescendo candicantibus fusco-cinctis, subcircularibus; peritheciis epiphyllis punctiformibus, atris; sporulis oblongo-ellipsoideis, utrinque rotundatis, 11 ≃ 6-7, 3-septatis, ad septa nonnihil constrictis, fuligineis. 2349

Hab. in foliis Populi nigræ, Vittorio in Ital. bor. — Affinis *Hendersoniæ piricolæ* Sacc.

63. **Hendersonia Araucariæ** Thüm. in Myc. univ. n. 682. — Perithe- 2350
ciis spuriis, sparsis, erumpentibus, amphigenis, subconicis, parvis, atris, epidermidem perforantibus; sporulis elongato-orculæformibus, utrinque plano-truncatis, triseptatis, ad septa obsolete constrictis, loculis æqualibus, breve pedicellatis, dilute fuscis, 15 ≃ 5, sine pedicello; pedicellis hyalinis, evanescentibus, 4-5 μ. longis, parte superiore lenissime dilatatis.

Hab. in foliis languidis aridisve Araucariæ brasiliensis, A. Bidwelli, A. Cunninghamii, Roma (Bagnis), Gorizia et Strazig in Litor. Austr. (Bolle).

64. **Hendersonia conorum** De Lacr. Bot. Zeit. 1863, p. 229. — Pe- 2351
ritheciis sphæroideis, ostiolo brevi notatis, gregariis, subcutaneis, epidermidem sublevantibus; sporulis oblongo-ovoideis, 3-septatis, fuscis, loculo infimo subhyalino, in basidium longum, gracile hyalinum abeunte sporophorisque ramosis insidente.

Hab. in strobilis Pini silvestris etc. in Gallia.

65. **Hendersonia notha** Sacc. et Br. F. Gallici n. 2239. — Perithe- 2352
ciis gregariis, globoso-depressis, subsuperficialibus, verruculosis, astomis, $^1/_{10}$-$^1/_8$ mill. diam., contextu parum distincto; sporulis oblongo-cylindraceis, 10-12 ≃ 4, utrinque rotundatis, rectis, 3-septatis constrictisque, olivaceo-fuligineis.

Hab. in pagina inf. foliorum Juniperi communis, Troyes Galliæ (Briard).

66. **Hendersonia thyoides** C. et Ell. Grevillea t. 99. f. 4. — Sparsa, 2353
epiphylla; peritheciis subglobosis, atris, papillatis, superficialibus; sporulis lanceolatis, 5-septatis, brunneis, 25 ≃ 9.

Hab. in foliis Cupressi thyoidis, New Jersey in Amer. bor.

67. **Hendersonia foliicola** (Berk.) Fuck. Symb. p. 391 *Podisoma fo-* 2354
liicolum Berk. in Sm. Fl. Br. V. p. 362. *Pod. Juniperi* β. *minus* Corda Ic. I. p. 8, f. 122. — Peritheciis epiphyllis, brunneo-nigris, subglobosis, subellipticis vel irregularibus; sporulis ellipticis vel clavatis, obtusis, 3-5-septatis, basidiis filiformibus, radiatis, agglutinatis suffultis.

Hab. in foliis vivis Juniperi communis in Britannia et Germania.

C. *In caulibus, foliis fructibusque Dicotyledonearum herbacearum.*

68. **Hendersonia pulchella** Sacc. Mich. II p. 112 (non Myc. Ven.) *H.* 2355
macrospora Sacc. Mycol. Ven. p. 199, t. XVII. f. 24, non Berk.

et Br. *H. Saccardiana* Cooke Præc. Hend. p. 21. — Peritheciis innato-prominulis, globulosis, breviter papillatis, atris; sporulis elongato-fusoideis, rectis curvulisve, 7-9-septatis, 30 ≃ 6, luteolis, dein obscurioribus.

Hab. in ramulis Sambuci nigræ in Italia bor. — Var. **Galiorum**: sporulis 7-septatis, 30 ≃ 5, fuligineis. In Ital. bor. — Var. **Saponariæ**: sporulis 9-10-septatis, 40 ≃ 5, olivaceo-fuligineis. In Italia bor. — Var. **Xylostei**: sporulis 9-11-septatis, 45 ≃ 4, fuligineis. In Italia bor. — Var. **Lychnidis dioicæ**: sporulis 9-10-septatis, 45 ≃ 4½, fuligineis. In Italia bor. — Var. **Lupuli**: sporulis 9-11-septatis, 35 ≃ 5, aureo-fuligineis. In caulibus Humuli Lupuli in Gallia.

69. **Hendersonia magna** Cooke F. Texas p. 142. — Erumpens in lineas seriatas disposita; peritheciis atris, subglobosis, hinc illinc connatis, dothideoideis, irregulariter fisso-erumpentibus; sporulis cylindraceis, obtusis, 3-5-septatis, 60-65 ≃ 10 («coloratis?»). 2356

Hab. in caulibus herbaceis, Houston Texas. — An e sectione *Sporocadi?* An *Stagonospora?* An *Hendersonula?*

70. **Hendersonia diversispora** (Preuss) Sacc. *Sporocadus diversispora* Pr. Fungi Hoyersw. n. 152. — Gregaria, immersa, suberumpens, minutissima, punctiformis; peritheciis atris, subconicis, perforatis; sporulis oblongis, subfusiformibus, 1-2-3-septatis, subfuscis, hilo notatis. 2357

Hab. in caulibus siccis herbarum, præsertim Delphinii Ajacis, Hoyerswerda.

71. **Hendersonia circinans** Sacc. *Byssothecii circinantis* pycnidium Fuck. Symb. p. 142. — Peritheciis in Rhizoctoniæ villo vel in hujus viciniis in cortice semiimmersis, globosis, atris, rugulosis, media magnitudine, subastomis; sporulis in sporophororum simplicium apicibus, oblongo-ovatis 3-septatis, 32 ≃ 12, loculis 2 int. fusco-violaceis, extimis minoribus pallidioribus. 2358

Hab. in radicibus cauleque inf. Medicaginis sativæ in Rhenogovia.

72. **Hendersonia Lupini** Cooke et Harkn. Grev. 1881, p. 84. — Sparsa, erumpens; peritheciis subglobosis, prominulis, atris, obtusis; sporulis anguste ellipticis, hyalinis, demum fuscis, triseptatis, 16-18 ≃ 3,5. 2359

Hab. in Lupino in California.

73. **Hendersonia anomala** C. et Ell. in Grevillea. — Erumpens; peritheciis elongatis, atris; sporulis ellipticis, triseptatis, brunneis, cellulis ultimis hyalinis, quandoque divisis et constrictis, 20 ≃ 10. 2360

Hab. in Tephrosia virginiana, New Jersey in Amer. bor. — An *Camarosporium?*

74. **Hendersonia Lirella** Cooke in Grevillea et Præc. Hend. p. 20. — 2361
Sparsa, linearis, erumpens; sporulis late fusiformibus v. clavato-ellipticis, brunneis, triseptatis, 15–18 ≃ 8.

Hab. in caulibus Spirææ Ulmariæ in Britannia. — Habitus *Diaporthes Lirellæ.*

75. **Hendersonia microphylla** Cooke in Grev. XII. p. 38. — Perithe- 2362
ciis membranaceis, fuscis, globoso-compressis, sparsis, semiimmersis; sporulis cylindraceis obtusis, rectis, triseptatis, pallide fuscis, 15 ≃ 3,5.

Hab. in foliis Paronychiæ serpyllifoliæ, Luchon Galliæ.

76. **Hendersonia ichthyospora** Sacc. Mich. I. p. 124. — Peritheciis 2363
gregariis epidermide velatis dein erumpentibus, globuloso-applanatis, $^1/_3$-$^1/_4$ mill. diam., breviter papillatis; contextu distincte celluloso fuligineo, solidiusculo; sporulis oblongis, 15–18 ≃ $3^1/_2$, 3-septatis, non constrictis e hyalino dilute olivaceis in stipitem sensim attenuatis ideoque subpisciformibus, stipite filiformi 30–35 long., basi $^3/_4$ μ. crasso, hyalino.

Hab. in caulibus ramisque Umbelliferarum ad Börnicke prope Bernau in Marchia Brandenburg, 1872 (P. Magnus). — Sporulis fere pisciformibus a ceteris speciebus mihi notis facillime dignoscenda. — An *Stagonospora?*

77. **Hendersonia Brunaudiana** Sacc. et Roum. Rel. Lib. Ser. IV. n. 147. 2364
— Peritheciis dense gregariis, $^1/_3$ mill. diam., subcarbonaceis; sporulis oblongo-fusoideis, utrinque obtusiusculis, leniter curvis, 3-septatis, leniter constrictis, 15–20 ≃ 5, dilute fuscis; loculis extimis subhyalinis; basidiis 8–11 μ. longis.

Hab. in caule Umbelliferarum majorum, sociâ *Phoma herbarum* in Arduennis (Libert).

78. **Hendersonia Heraclei** Sacc. Mich. I. p. 213. — Peritheciis spar- 2365
sis, subcutaneo-erumpentibus, globosis, majusculis papillatis, atris; sporulis cylindraceis, utrinque rotundatis, 20–22 ≃ 5, rectiusculis, initio 4-guttulatis, dein 3-septatis, non constrictis, olivaceo-lutescentibus.

Hab. in caulibus putrescentibus Heraclei Sphondylii, Selva in Ital. bor., socio *Acrothecio caulium* Sacc.

79. **Hendersonia nobilis** Dur. et Mont. Fl. Alg., I. p. 570 Mont. Syll. 2366
n. 941, nec B. et C. (quæ *Diplodiella*). — Caulicola; peritheciis sphæricis, caule atrato innatis tandem prominulis, ostiolo crasso

instructis, intus ceraceo-albis; sporulis subsessilibus cylindricis rectis utrinque obtusis, triseptatis, fuscis, 30–40 ≃ 6–8.

Hab. in petiolis Magydarios tomentosæ Alger. (Durieu).

80. **Hendersonia Solani** Karst. Hedw. 1884, p. 19. — Peritheciis sub- 2367
gregariis, per corticem erumpentibus, sphæroideis, ostiolo papillato, atris, mediocribus; sporulis oblongatis, utrinque obtusissimis, rectis vel flexuosis, 3–7, plerumque 3-septatis, ad septa non constrictis, dilute fuligineis, 12–22 ≃ 4,5–6,5.

Hab. ad caules ramosque siccos Solani Dulcamaræ prope Aboa Fenniæ.

81. **Hendersonia Dulcamaræ** Sacc. Mich. I. p. 215. — Maculis are- 2368
scendo dealbatis, subcircularibus; peritheciis punctiformibus, paucis, lenticularibus, atris; sporulis cylindraceis, 14 ≃ 4, rectiusculis, 3-septatis, non constrictis, olivaceis.

Hab. in foliis Solani Dulcamaræ, Selva in Ital. bor.

82. **Hendersonia Letendreana** Sacc. I. p. 517. — Peritheciis globoso- 2369
depressis gregariis, subcutaneo-erumpentibus, 120–130 μ. diam., ostiolo impresso pertusis; contextu distincte celluloso, fulvo-fuligineo; sporulis cylindraceo-curvulis v. subclavulatis, utrinque præcipue apice obtusis, 25–30 ≃ 4, 3–4-septatis, non constrictis, melleis.

Hab. in caulibus Convolvuli (Pharbitis) culti, Rouen in Gallia (Letendre). — Affinis *Hendersoniæ pulchellæ* Sacc. Michel. p. 213, a qua sporulis minoribus et parcius septatis differt. — β. **muralis** Sacc. Mich. II. p. 111: peritheciis quandoque confluentibus, et tunc minoribus nempe 70 μ. diam., depresso-globosis; sporulis 20–25 ≃ 2–3, cylindraceo-clavulatis, curvulis 3-septatis dilute olivaceis, tandem ad septum medium lenissime constrictis. In caulibus Parietariæ officinalis in Gallia (Brunaud).

83. **Hendersonia lagenaria** Sacc. Mich. I. p. 212. — Peritheciis gre- 2370
gariis, globulosis, majusculis, epidermide velatis, depresso-papillatis, hyphulis basi vestitis; sporulis oblongo-fusoideis, initio stipitellatis, continuis, hyalinis, dein 3- (raro 2-)septatis, 20–22 ≃ 7, fuligineis; loculis extimis paullo pallidioribus.

Hab. in epicarpio putri Lagenariæ vulgaris, Padova in Ital. bor. — Verisimiliter *Sphæria mucosa* Kickx Fl. Fland. I. p. 345 n. 48 (non Pers. nec Fuck.) huc spectat.

84. **Hendersonia rupestris** Sacc. et Sp. Mich. I. p. 215. — Maculis 2371
amphigenis subcircularibus sinuosisque, arescendo candidis, fulvo-elevato-marginatis; peritheciis lenticularibus, punctiformibus, 100–110 μ. diam., late pertusis; contextu tenui membranaceo, celluloso,

dilute fuligineo; sporulis oblongo-fusoideis, 17-22 ≃ 4½-6, curvulis, 3-septatis, ad septum medium constrictis, dilute olivaceis.

Hab. in foliis Capparidis rupestris, Susegana in Italia boreali (Spegazzini).

85. **Hendersonia martialis** Speg. in Sacc. Mich. I. p. 484. — Peritheciis lenticulari-conoideis, minutis, 120-150 μ. d., sparsis, subepidermicis, ostiolo papilliformi vix exerto; contextu parenchymatico-celluloso, fusco-olivaceo; sporulis oblongo-ellipticis utrinque obtusiusculis, 2-3-septatis, ad septa plus minusve constrictis, pallide olivaceis, 12-18 ≃ 5-6. 2372

Hab. ad caules emortuos Statices Limonii in Campo Martis Venezia Ital. bor.

86. **Hendersonia Polygoni** Rabh. in Bot. Zeit. 1851, p. 455. — Erumpens; peritheciis pertusis; nucleo diffluente; sporulis cylindraceis v. clavatis 3-4-septatis, pedicellatis, olivaceis. 2373

Hab. in caulibus Polygonorum, Trieste in Istria (Biasoletto).

87. **Hendersonia peruviana** Speg. F. Arg. Pug. IV. n. 304. — Peritheciis epidermide velatis, lenticulari-depressis, 180-200 μ. d., subcollabascentibus, ostiolo minuto papilliformi pertusis, atris, membranaceis, contextu atro-fuligineo, subopaco; sporulis cylindraceo-ellipticis, utrinque obtuse rotundatis, 5-septatis, ad septa constrictis 25 ≃ 7, intense fuligineis. 2374

Hab. in caulibus dejectis emortuis Salicorniæ peruvianæ ad ripas lacunarum australium «las Saladas Grandes» dictas in Argentina. — An status stylosporicus *Pleosporæ Salsolæ* Fuck.?

88. **Hendersonia Lupuli** Moug. et Lév. in Ann. Sc. nat. 1846, p. 289. — Peritheciis confertis erumpentibus globosis nigris; ostiolis papillatis, demum deciduis; sporulis elongatis fusiformibus, 3-4-septatis plerumque curvatis, basidiis longiusculis suffultis. 2375

Hab. in sarmentis Humuli Lupuli, Bruyères in Vogesis, in Gallia. — An huc spectet *Hendersonia Humuli* Fr. S. Veg. Scand. p. 416, me latet.

D) *In Monocotyledoneis et Acotyledoneis.*

89. **Hendersonia Sabaleos** Ces. Hedw. 1882, pag. 10, Rabenh. F. E. n. 2661. — Peritheciis epidermide, quam stellatim findunt, obtectis, punctiformibus, contextu granuloso; sporulis cylindraceis 3-septatis, utrinque obtusissimis, 12-16 ≃ 5. 2376

Hab. in lamina exsiccata foliorum Sabal Adansonii, Napoli in Ital merid. (Cesati). — An *Stagonospora?*

90. **Hendersonia Sparganii** Niessl, Vorarbeiten Crypt. Mähren und Österr. Schlesien p. 34. — Peritheciis minutis, sparsis, hemisphæricis, atris, prominulo-innatis, papillatis; sporulis cylindricis, rectis vel curvatis, utrinque obtusiusculis, 3-septatis, 19 ≃ 3. 2377

Hab. in foliis siccis Sparganii ramosi, Brünn in Moravia. — An *Stagonospora?*

91. **Hendersonia Typhæ** Oud. Mater. Flora mycol. de la Neerlande II. p. 19. — Peritheciis nigris, centro poro pertusis; sporulis e facie interiore peritheciorum prodeuntibus erectis, fuscis, fusiformibus, una extremitate obtusa, altera (inferiore) acutata, 6-locularibus, 50 ≃ 7. 2378

Hab. in caulibus Typhæ angustifoliæ, Achttienhoven in Neerlandia.

92. **Hendersonia Gladioli** Brunaud, in Roumeg. Revue Mycolog. — Peritheciis innatis vel erumpentibus, nigris, globulosis, depressis; sporulis luteis, cylindricis vel cylindraceo-fusiformibus, elongatis, 10–12-septatis, 45–50 ≃ 2–3, guttulatis. 2379

Hab. in caulibus emortuis Gladioli culti, Saintes in Gallia.

93. **Hendersonia Fourcroyæ** Thüm. Contr. Myc. Lusit. n. 346. — Peritheciis amphigenis, sparsis vel subgregariis, emersis, lenticularibus, aterrimis in foliorum partibus expallescentibus; sporulis cylindrico-ellipsoideis, utrinque rotundatis, quadriseptatis, rectis, fuscis, 10 ≃ 6; basidiis hyalinis, rectis brevibus. 2380

Hab. in foliis aridis Fourcroyæ giganteæ, Coimbra in Lusitania.

94. **Hendersonia Yuccæ** Kickx Fl. cr. Flandr. t. I. p. 390. — Peritheciis punctiformibus, nigris, sparsis, immersis, globulosis, poro pertusis, tectis, maculas minutas nigras formantibus; sporulis oblongis ellipticis, obtusis, initio hyalinis dein brunneis, 3-septatis. 2381

Hab. in foliis Yuccæ gloriosæ et filamentosæ in Gallia et Belgio. — *Hendersoniæ puræ* Sacc. affinis videtur.

95. **Hendersonia pura** Sacc. Mich. I. p. 211. — Peritheciis remote gregariis subcutaneis, globoso-depressis, papillulatis atris; sporulis ovato-oblongis, initio stipitellatis, continuis, hyalinis, dein 2-(raro 3-)septatis, 16-18 ≃ 7, loculis extimis subhyalinis, medio v. mediis fuligineis, ad septa vix constrictis. 2382

Hab. in caule putrescente Lilii candidi, Selva in Ital. bor.

96. **Hendersonia Xerophylli** Ellis Bull. Torr. bot. Club. 1882, p. 74. 2383

— Peritheciis oblongis, epidermide elevata, nigrificata et longitrorsum fissa tectis; sporulis oblongis, obtusis, pallide brunneis, 1-3-septatis, septo ultimo plerumque dein evanescente.

Hab. in foliis Xerophylli asphodeloidis in Amer. bor.

97. **Hendersonia ruscicola** (Rabenh.) Sacc. *Sporocadus ruscicola* Rabh. Hedw. 1852, p. 287. — Peritheciis.....; sporulis rectis, cylindraceis vel fusiformibus, triseptatis, brevipedicellatis, fuscis; pedicello hyalino. 2384

Hab. in ramis v. cladodiis Rusci in Germania.

98. **Hendersonia sessilis** Mont. Cent. VI. n. 31, I. c., pag. 44. Syll. n. 936. — Peritheciis seriatis minutis sphæricis, e rimis culmorum erumpentibus, punctiformibus atris, poro pertusis; sporulis oblongis obtusis vel utroque fine interdum attenuatis triseptatis, subsessilibus, tandem fuscidulis, 10 ≃ 3. 2385

Hab. ad culmos exsiccatos Scirpi Holoschæni in Gallia australi (Castagne). — An *Stagonospora?*

99. **Hendersonia riparia** Sacc. Mich. I. p. 124. — Peritheciis gregariis, tectis, globoso-lenticularibus, punctiformibus, 80-100 μ. diam., pertusis, contextu celluloso laxiusculo, ochraceo-fuligineo; sporulis cylindraceis, 40-45 ≃ 3 ½-4, curvulis, utrinque obtuse leniter attenuatis, 6-7-septatis, sæpius 7-8-guttulatis, flavidis, basidiis fasciculatis filiformibus, sursum attenuatis, 20-30 ≃ 2-3, hyalinis fultis. 2386

Hab. in foliis, præcipue ad paginam infer. Caricis ripariæ ad Finkenkrug prope Spandau in Marchia Brandenburg (P. Magnus). — Peraffinis videtur *Stagonosporæ macropodi*, a qua sporulis distincte 6-7-septatis (nec tantum 3-6-guttulatis) flavidisque differt.

100. **Hendersonia commutata** Sacc. *Hendersonia elegans* Sacc. Myc. Ven. Spec. p. 199, nec Berk. (quæ *Stagonospora*). — Peritheciis innato-erumpentibus, globuloso-papillatis, nigris, subsparsis; sporulis elongato-fusoideis, majusculis, 10-12-septatis, fuligineis. 2287

Hab. in culmis Zeæ Maydis, Padova in Italia boreali.

101. **Hendersonia eustoma** Sacc. Fungi ven. II. p. 319. — Peritheciis sparsis, erumpenti-superficialibus, minutis; sporulis elongato-fusoideis, curvulis, 30 ≃ 3, 3-septatis, lutescentibus. 2388

Hab. in culmis pedunculisve Sorghi vulgaris, Treviso in Ital. bor. — Pycnidium *Leptosphæriæ eustomæ.*

102. **Hendersonia arundinacea** (Desm.) Sacc. Mich. I. p. 211. *Sphæria arundinacea* Desm. Obser. sur le *Sph. arund.* et *Godini* 1846, p. 46. — Peritheciis seriatis, compressiusculis, erumpenti- 2389

bus; sporulis fusoideis rectis curvulisve, 28–30 ≃ 3½, fuligineo-olivaceis 3–5-septatis.

Hab. in culmis Phragmitis communis in Gallia.

103. **Hendersonia minutissima** Sacc. *Hendersonia microscopica* Niessl. Hedw. 1878, pag. 176, nec Fr. — Peritheciis minutissimis, sparsis; sporulis clavato-fusiformibus, lutescentibus, 4–5-nucleolatis, 9–11 ≃ 2. 2390

Hab. in Apluda mutica in India orient.

104. **Hendersonia culmicola** Sacc. Mich. I. p. 210. *H. subseriata* Sacc. F. Ven. Ser. V. p. 207, nec Desm. — Peritheciis minutis, globoso-papillatis, nigris, innato-erumpentibus, sæpius seriatis; sporulis cylindraceis, 28–32 ≃ 4, 4–5-septatis flavis. 2391

Hab. in vaginis Brachypodii pinnati et in culmis graminum minorum, Padova in Ital. bor., in Gallia. — Var. β. **intermedia** Sacc. F. Ven. Ser. II. p. 322: sporulis cylindraceis, curvulis, 5-septatis, utrinque rotundatis, 25 ≃ 3, flavidis. — Var. γ. **minor** Sacc. l. c.: sporulis ut præcedentis sed plerumque 3-septatis. — Utraque varietas in culmis variis minoribus in Italia boreali.

105. **Hendersonia culmiseda** Sacc. *Hend. culmicola* Cooke Præcursor Monogr. Hendersoniæ p. 23, nec Sacc. — Peritheciis.....; sporulis breviter lanceolatis, triseptatis, fuscis, 15 ≃ 5. 2392

Hab. ad Ammophilam et Phragmitem in Britannia (?).

106. **Hendersonia Phragmitis** Desm. 22 Not. p. 12. — Peritheciis innatis, minutissimis, 170 μ. diam., numerosis, sparsis, globosis, nigris, epidermide tectis; ostiolis erumpentibus, papillatis halone brunnea cinctis, demum deciduis; sporulis ovoideo-oblongis, 15–20 ≃ 7, 3-septatis, fuscis. 2393

Hab. in vaginis vetustis Phragmitis communis in Gallia.

107. **Hendersonia Fuckelii** Sacc. *Pleosporæ* (Leptosphæriæ) *arundinaceæ* pycnidium Fuck. Symb. p. 137. — Peritheciis innato-erumpentibus, sæpe cæspitulosis, papillatis; sporulis fusiformibus, curvatis, 3–4-septatis, 4–6-guttatis, 26–56 ≃ 6, flavidis. 2394

Hab. in culmis Phragmitis communis in Rhenogovia.

108. **Hendersonia Arundinis** Lib. in Roumeg. Revue Mycolog. (sub *Sporocado*) — Peritheciis immersis, sparsis, minutissimis, globosis, nigris, basi villosis, ostiolo punctiformi; sporulis oblongis, atris, 1–3-septatis, cirrose erumpentibus. 2395

Hab. in culmis siccis Phragmitis communis prope Malmedy in Arduennis (Libert). — *Hendersonia neglecta* West., quam

Cooke in Grev. 1880, p. 83 huc ducit, diversa videtur et ob perithecia calva et ob sporulas hyalinas.

109. **Hendersonia rimosa** Lév. in Ann. Sc. Nat. 1846, p. 289. — Peritheciis sparsis, innatis, elongatis, compressis, nigris, epidermide fissa tectis; sporulis cylindricis, obtusis, 4-septatis («coloratis?»). 2396

Hab. in culmis vetustis Phragmitis communis, Malesherbes in Gallia. — An *Stagonospora?*

110. **Hendersonia graminicola** Lév. Ann. Sc. Nat. 1846, V. 288. — Peritheciis gregariis, minutis, innatis, globosis, intus nigris, apice pertusis; sporulis elongatis, 2-3 septatis, fuscis, 22 ≃ 5. 2397

Hab. in foliis Arundinis Epigejos, Paris in Gallia, Phragmitis communis, Treviso in Ital. bor. et Neuchatel in Helvetia.

111. **Hendersonia vaginæ** (Rabenh.) Kalchbr. Szepesi Gomb. p. 268, tab. II. f. 6. *Sphæropsis vaginæ* Rabenh. Bot. Zeit. 1858, p. 303. — Peritheciis minutis, punctiformibus, subinnatis, vertice subprominulis, sparsis; sporulis acrogenis, pedicello longo, filiformi thalamio affixis, quadrilocularibus, ad dissepimenta paullulum constrictis, sublunulatis, utrinque acutiusculis, hyalinis, demum fuscis. 2398

Hab. in vaginis Phragmitis communis in Germania et Hungaria.

112. **Hendersonia crastophila** Sacc. Mich. I. p. 211. — Peritheciis sparsis innato-erumpentibus, globulosis, papillatis, atris; sporulis bacillari-fusoideis, utrinque rotundatis, 35 ≃ $5^1/_2$, 7-8-septatis, eguttulatis, fuligineis. 2399

Hab. in culmis Phragmitis communis in Ital. bor. — Var. β. **Cynodontis Dactyli**: sporulis similibus, 35 ≃ 4. — In ejusdem culmo in Italia bor. — ***H. juncicola** Sacc. Mich. II. p. 112. A typo præcipue differt sporulis angustioribus, nempe, 30-35 ≃ $3^1/_2$, sed pariter 7-septatis, flavidis; peritheciis erumpentibus, globoso-depressis, vix papillatis, nigris, $^1/_8$ mill. diam. — In calamis Junci effusi, Saintes in Gallia (Brunaud).

113. **Hendersonia donacina** Mont. in Cast. Suppl. p. 61 et Syll. n. 942. — Epiphylla; peritheciis minutissimis sphæricis in folio decoloranti-griseo gregariis, poro pertusis; sporulis fusiformibus rectis aut incurviusculis septis 7 transversis divisis («coloratis?»). 2400

Hab. in foliis Arundinis Donacis apud Montaud-lez-Miramas Galliæ (Castagne). — An *Stagonospora?*

114. **Hendersonia Donacis** Sacc. Mich. I. p. 211. — Peritheciis innato-erumpentibus, remote gregariis e globoso longitudinaliter compressis, ostiolo brevissimo, obtuso; contextu minute parenchyma- 2401

tico fuligineo; sporulis cylindraceis utrinque obtuse rotundatis, 15–18 ≃ 5, 3-septatis, ad septa vix constrictis, fuligineis.

Hab. in culmis emortuis Arundinis Donacis, Padova in Ital. bor., socio *Lophiostomate hygrophilo* Sacc., quocum forte metagenetice connexa est. Cum *Hend. donacina* Mont. non comparanda.

115. **Hendersonia Castagnei** Mont. Cent. VI. n. 33, l. c., p. 45 et Syll. n. 937 *Sphæria Milii-multiflori* Cast. Catal. p. 173. — Peritheciis immersis globoso-depressis minimis longitrorsum seriatis tectis, tandem denudatis opacis, ostiolo prominulo perforato; sporulis fusiformibus triseptatis fuscidulis pedicellatis, ad centrum versis, 15 ≃ 5. 2402

Hab. in culmis Milii multiflori in Gallia australi (Castagne).

116. **Hendersonia effusa** B. et C. North Americ. Fungi n. 426bis. — Peritheciis in maculas angustas elongatas congestis; sporulis oblongis leviter curvis triseptatis, 12–15 μ. longis («coloratis?»). 2403

Hab. in culmis Aristidæ strictæ in Carolina super. — An *Stagonospora?*

117. **Hendersonia atramentaria** Schröt. Hedw. 1878, p. 173. — Peritheciis globulosis, circ. 150 μ. diam., immersis, ostiolis erumpentibus prominulis, pseudo-stromate nigricante elliptico v. elongato, irregulari 1–3 mill. long. 1–2 lat. exceptis; sporulis lanceolatis v. ovato-fusoideis, 14–18 ≃ 4,5–5,5, fusco-olivaceis, 3-6-nucleatis (an tandem septatis?); basidiis bacillaribus 60 μ. longis, hyalinis. 2404

Hab. in foliis Glyceriæ aquaticæ et G. fluitantis in Germania.

118. **Hendersonia dispar** Mont. in Cast. Suppl. p. 63 et Syll. n. 943. — Epiphylla, gregaria; peritheciis minutis, epidermide tectis, sphæricis, prominulis, ostiolo annulari instructis; sporulis oblongis magnis, fuscis, triseptatis seu 4-locularibus, quovis loculo guttulam globosam fovente. 2405

Hab. in foliis Tritici gracilis in Gallia (Castagne).

119. **Hendersonia microsticta** Berk. in Crypt. Antarct. p. 58 (Diagnosis nunc mihi desideratur). 2406

Hab. in caule dealbato Chrysobactri Rossii in regione Antarctica.

120. **Hendersonia lichenicola** (Corda) Fr. S. V. S. p. 416 Kickx t. I. p. 391. *Sporocadus lichenicola* Corda Ic. III. p. 23, f. 65. *Sporocadus rosicola* Rabenh. Bot. Zeit. 1848, p. 294. — Peritheciis 2407

sparsis, tectis, nigris, levigatis, globulosis dein depressis, minutis, poro pertusis; sporulis oblongis fusoideis, 3-septatis, constrictis, fuscis; basidiis sporulam superantibus, bacillaribus hyalinis.

Hab. in apotheciis Lecideæ luteolæ, Gand in Belgio, et in ramis Rosæ caninæ, lichene affectis, in Bohemia.

II. *Sporocadus* Sacc. (nec Cordæ).

Perithecia majuscula, typice tecta; sporulæ amplæ.

121. **Hendersonia Carpini** Sacc. *Massariæ Carpini* pycnidium Fuck. Symb. p. 153. — Sparsa, gregaria, sub corticis epidermide nidulans; peritheciis orbicularibus, 1 mill. diam., depressis, villo olivaceo obsitis, vero antice glabris, atro-fuscis perforatisque; sporulis oblongis, utrinque obtusis vel basi oblique recteve apiculatis stipitatisve, 1-7-locularibus, septis obscuris, aureo-flavis, 52 ≃ 14. 2408

Hab. in ramis siccis corticatis Carpini Betulii in Rhenogovia.

122. **Hendersonia carpinicola** Sacc. *Massariæ carpinicolæ* pycnidium Fuck. Symb. p. 152. — Peritheciis subcutaneis, gregariis, globoso-depressis; sporulis oblongo-ovatis, utrinque subapiculatis attenuatisve, stipitatis, distincte 4-5-septatis, fuscis, 40 ≃ 16. 2409

Hab. in ramis corticatis Carpini Betulii in Rhenogovia.

123. **Hendersonia loricata** Sacc. et Roum. in Mich. II. pag. 629. — Peritheciis gregariis innato-erumpentibus, corticolis globulosis, pertusis, $^1/_3$-$^1/_2$ mill. diam.; contextu minute parenchymatico fuligineo; sporulis ovoideo-obpiriformibus, 22-28 ≃ 15-16, apice rotundatis, 2-3-septatis, non constrictis, fuligineis initioque guttulatis, basidiis filiformibus, 10-15 ≃ 2, hyalinis suffultis. 2410

Hab. in ramis corticatis fagineis, Saintes in Gallia (Brunaud). — Probabiliter pycnidium *Massariæ loricatæ* Tul.

124. **Hendersonia Desmazieri** Mont. Cent. VI. n. 92, l. c. XII. p. 310 (1848-49) *Stagonosporium Platani* Preuss (1853) *Hendersonia Platani* Peck (serius). — Peritheciis immersis cortice semper tectis adhærentibusque, crassis, globoso-depressis, confluentibus, atris, intus griseis, initio papillatis, tandem poro centrali pertusis; sporulis obovatis tandem brunneis, 40-45 ≃ 20, 4-nucleatis, 3-septatis, basidiis brevibus oblongis conoideisve hyalinis fultis, denique erumpendo atro-inquinantibus. 2411

Hab. in ramis corticatis Platani orientalis et occidentalis in Gallia, Italia bor., Germania, America septentr. — Pycnidium *Massariæ Platani* Ces.

125. **Hendersonia ulmicola** Cooke Præcurs. Monogr. Henders. p. 24. 2412

— Peritheciis majusculis, tectis, obtusis; sporulis ellipticis, triseptatis, constrictis, brunneis, 50 ≃ 20.

Hab. ad ramulos U l m i in consortio *Massariæ fœdantis*, cujus forte pycnidium, in Britannia.

126. **Hendersonia epileuca** C. et Ellis in herb. et Præcursor Monogr. Henders. p. 24. — Peritheciis majusculis, tectis, obtusis, atris; sporulis late lanceolatis, 5-septatis, brunneis, 80 ≃ 20-22. 2413

Hab. ad ramulos M o r i in consortio *Massariæ epileucæ*, cujus probabiliter pycnidium, in America boreali.

127. **Hendersonia polycystis** B. et Br. Ann. N. H. n. 415. — Peritheciis globosis, floccis cinereis dense tectis; sporulis latis oblongo-ellipticis, plurilocularibus, gelatina involutis, basidiis septatis suffultis. 2414

Hab. in ramulis siccis B e t u l æ in Britannia. — Pycnidium *Pseudovalsæ lanciformis.*

128. **Hendersonia magnata** B. et Cooke in Berk. herb. Cooke Præcursor Monogr. Henders. p. 24. — Peritheciis.....; sporulis elongato-ellipticis, multinucleatis, dein 5-septatis, brunneis, 40-45 ≃ 13. 2415

Hab. ad ramulos decorticatos in Hungaria.

III. *Hendersoniella* Sacc.

Perithecia epixyla subsuperficialia.

129. **Hendersonia quercina** Sacc. Mich. I. p. 213. — Peritheciis ligno immersis, globulosis, atris; sporulis cylindraceo-oblongis, utrinque rotundatis, 16-18 ≃ $3^1/_2$-4, rectis v. leniter curvis, initio continuis guttulatis, dein 3-septatis, non constrictis, olivaceo-fuscis, denique e perithecio expulsis lignumque olivaceo-fœdantibus. 2416

Hab. in ligno putrescente q u e r c i n o, Selva in Ital. bor. rarius.

130. **Hendersonia trabicola** Sacc. *Teichosporæ trabicolæ* Fuck. pycnidium Fuck. Symb. p. 161. — Peritheciis gregariis, erumpentibus, globosis, majusculis, obtusis, nigris, ostiolo obsoleto; sporulis oblongis, utrinque obtusis, quandoque curvatis, triseptatis, fuscis, 14 ≃ 4. 2417

Hab. in asseribus Q u e r c u s in Rhenogovia.

131. **Hendersonia eximia** B. et C. North Americ. Fungi n. 424. — Peritheciis congestis seriatis; sporulis utrinque obtusis biseptatis, 25-30 ≃ 10-11. 2418

Hab. in ligno denudato et superficie albo-maculato C a r y æ in Carolina inf. — An *Stagonospora?* — Sporulæ rarius tantum 1-septatæ.

132. **Hendersonia? constricta** B. et Br. F. of Ceyl. n. 795. — Peritheciis subglobosis pruinatis, basi floccis radiantibus suffultis; sporulis metulæformibus uniseptatis, medio constrictis 22 μ. longis. 2419

Hab. in ligno emortuo in insula Ceylon. — An *Diplodiella?* an *Stagonospora?*

133. **Hendersonia lignicola** (Pr.) Sacc. *Sporocadus lignicola* Pr. F. Hoyersw. in Linnæa 1852, p. 78. — Punctiformis, basi lignum penetrante, atra; peritheciis semiimmersis obtusis, ostiolo perforato; sporulis oblongis didymis rarius tridymis, fuscis. 2420

Hab. in ligno excorticato Mali, Hoyerswerda. — «An *Diplodiella?*»

COUTUREA Cast. Cat. Pl. Mars. p. 192, Desm. 13 Not. p. 65. (Etym. a botan. gall. Couture?). — Perithecia superficialia, globosa, atra, membranacea, areolato-contexta, astoma, irregulariter rupta, hyphis stromaticis stellatim repentibus, ramosis, gonidioideis basi cincta. Sporulæ ovato-oblongæ, 1-3-septatæ, olivaceo-brunneæ. — Videretur quasi *Meliola* ascis carens.

1. **Couturea Castagnei** Desm. l. c. *C. elœanema* et *C. Rosmarini* Cast. l. c. — Peritheciis sparsis, minutissimis, nigris, 60-70 μ. d.; sporulis numerosis, ovoideo-oblongis, utrinque obtusis, olivaceo-brunneis, 2-3-septatis, rarius 1-septatis, 10-14 μ. longis. 2421

Hab. in pag. inf. foliorum vivorum vel languescentium Oleæ et Rosmarini in Gallia et Italia. — Forma in Rosmarino præbet sporulas plerumque 3-septatas.

ANGIOPOMA Lév. Ann. Sc. Nat. 1841, p. 235. (Etym. *angeion* vas, et *poma* operculum). — Perithecia membranaceo-subcornea, cyathiformia, ore circulari dehiscentia, epiphragmate pallido fugaci, tecta. Sporulæ fusoideæ, 4-6-septatæ, fuscæ, hyalino-stipitatæ.

1. **Angiopoma campanulatum** Lèv. l. c. — Peritheciis gregariis obconico-elongatis, atris, hirtis, 3-4 mill. altis; sporulis fasciculatis, rectis curvulisve, apice obtusis, medio inflatis, 5-6-septatis, brunneis; basidiis cylindricis, continuis, hyalinis, sporulam æquantibus. 2422

Hab. ad semina Bromi sterilis, Versailles in Gallia.

LICHENOPSIS Schw. Syn. North Amer. Fungi p. 308, n. 3098, tab. XIX. fig. 6. (Etym. *lichen*, cujus habitum subinde refert), *Phæobolus* Fr. Summa Veg. Scand. p. 416. — Perithecia immersa, circumscissa, operculo deciduo tecta, nucleo libero demum sicco re-

jecto, cupulam vacuam relinquentia. Sporulæ ellipsoideo-oblongæ, septatæ, fuscæ, basidiis bacillaribus hyalinis, septatis suffultæ.

1. **Lichenopsis sphæroboloidea** Schw. l. c. — Peritheciis ligno vel cortice immersis, 2 mill. diam., intus tapetio pallide luteo subcarnoso vestitis, extus pallidis, per crustam albescentem subdeterminate effusam (propriam?) erumpentibus; basidiis sporulà (ex icone) 6-8-plo longioribus. 2423

Hab. in ligno et cortice ramorum Corni floridæ et Celtidis, Bethlehem in America bor. — Maculas lichenosas (unde nomen) 5 cent. latas format.

CRYPTOSTICTIS Fuck. in Fung. Rhen. n. 1838 (Etym. *cryptos* absconditus, et *Stictis*), *Dochmolopha* Cooke Præc. Henders. p. 25. — Perithecia erumpentia, globosa vel depressa, pertusa, subinde spuria. Sporulæ oblongæ 2-pluriseptatæ, utrinque 1-aristatæ, fuscæ, longiuscule hyalino-stipitatæ. — Est fere *Hendersonia* sed sporulis ciliatis.

1. **Cryptostictis Cynosbati** (Fuck.) Sacc. *Hendersonia Cynosbati* Fuck. Symb. p. 392, tab. IV. fig. 23. — Peritheciis spuriis hemisphæricis, atris, tectis, demum erumpentibus; sporulis pedicellatis oblongis, utrinque parum attenuatis vel rotundato-obtusis, curvatis, 3-septatis, pallide flavis, 14-15 ≃ 5-6, utrinque sub apice ciliis sporulà sublongioribus. 2424

Hab. in fructibus siccis adhuc stantibus Rosæ pimpinellifoliæ vel spinosissimæ in Rhenogovia et Bavaria.

2. **Cryptostictis hysterioides** Fuck. F. Rhen. n. 1838, *Hendersonia hysterioides* Fuck. Symb. p. 392, t. IV. f. 24. — Peritheciis spuriis gregariis, innatis, ellipticis, lineam longis, atris, parallele dispositis, demum rima oblongo-lineari dehiscentibus, disco carnoso, excavato; sporulis pedicellatis, ovatis, subinæquilateralibus, utrinque attenuatis,antice plerumque obtusioribus, 3-septatis, rarius 1-2-septatis, flavis, loculis 2 ultimis pallidioribus, utrinque in latere ciliis sporulam æquantibus, 16 ≃ 7 (sine ciliis). 2425

Hab. in sarmentis corticatis siccis Vitis viniferæ prope Budenheim Rhenogoviæ.

3. **Cryptostictis ilicina** Sacc. M. V. n. 327 et F. Ven. Ser. V. p. 198 (sub *Pestalozzia*). — Maculis exaridis, albidis, angulosis; pseudoperitheciis lentiformibus, membranaceis, astomis, erumpentibus; sporulis ovoideis, 15 ≃ 7, 5-locularibus, loculis extimis oblique 1-aristatis, hyalinis, ceteris fuligineis stipite filiformi, 30 ≃ 1¾, hyalino. 2426

Hab. in foliis languidis Quercus Ilicis, Arco (Trentino) in Italia boreali.

4. **Cryptostictis Mariæ** (Clinton) Sacc. *Pestalozzia Mariæ* Clinton in Peck Rep. on the St. Mus. N. Y. t. 2, f. 1-2. — Maculis aridis, brunneis vel cinerescentibus, brunneo-marginatis; pustulis (perithecis) minutis, sparsis, erumpentibus, nigris, cuticula stellatim rupta cinctis; sporulis fusiformibus, 5-septatis, loculis 4 intermediis fuligineis, loculis extimis hyalinis aristatisque, 17-25 μ. long. (sine aristis). 2427

Hab. in foliis Rhododendri maximi, Buffalo et Forestburgh in America bor.

5. **Cryptostictis Loniceræ** (Thüm.) Sacc., *Hendersonia Loniceræ* Thüm. M. U. n. 578, nec Fr., *Dochmolopha Loniceræ* Cooke Præc. Hend. p. 25. — Peritheciis innato-erumpentibus, globoso-depressis, spuriis, nigris, haud papillatis, seriatis; sporulis breve fusoideis, 3-septatis, 12-15 ≃ 4 (sine ciliis), loculis interioribus olivaceis, extimis hyalinis oblique 1-aristatis, aristis hyalinis, 10-15 ≃ 1; pedicellis filiformibus, sæpe ramosis, prælongis 30-40 μ. longis, hyalinis. 2428

Hab. in ramulis corticatis Loniceræ tataricæ, Bayreuth in Bavaria. — Diagnosim ex ipsis exemplaribus Thümenianis concinnavi. — Nuclei definiti globosi, sed membrana perithecii imperfecta.

6. **Cryptostictis caudata** (Preuss) Sacc. *Sporocadus caudata* Preuss Hoyersw. n. 153. — Erumpens; peritheciis exiguis; ostiolis perforatis, tum reclusis, discoideis, angulatis vel oblongis depressis, atris; basidiis pedicelliformibus, albis, simplicibus continuis; paraphysibus intermixtis; sporulis dilute fuscis, subclavatis, diaphanis, transverse septatis, apiculis et basibus albis, in apiculo longo filo ornatis. 2429

Hab. in ramis dejectis Rosæ, in hortis, Hoyerswerda.

PROSTHEMIUM Kunze Myk. Heft I. p. 17, t. I., f. 10. (Etym. *prosthema* appendix). — Perithecia tecta, carbonacea, globoso-depressa, atra. Sporulæ teretiusculæ, pluriseptatæ, in capitula stellatim conjunctæ, coloratæ. Basidia obsoleta vel filiformia.

1. **Prosthemium betulinum** Kunze Myk. Heft I. p. 17. t. I., f. 10. — Peritheciis subsolitariis, lenticularibus, cortice nidulantibus, poro pertusis; sporulis obclavatis, 40-50 ≃ 15, 2-4, basi stellatim coalitis, dilute fuligineis, 3-4-septato-nucleatis, nucleis pallidis; hyphulis 2430

filiformibus, 6-7 μ. cr., guttulatis basi ornatis, media longiori, pedunculari; paraphysibus subinde intermixtis.

Hab. in ramis corticatis Betulæ albæ in Gallia, Germania, Britannia, Italia. — Pycnidium *Massariæ sipariæ.*

2. **Prosthemium stellare** Riess, in Bot. Zeit. 1853, pag. 130, tab. III, fig. 28-31. — Peritheciis sublentiformibus, nigris, poro pertusis, tectis; sporulis tereti-obclavatis, 3-4-septatis, fuligineis apice pallidioribus, 12-20, basi stellatim coalitis, demum cirrose propulsis, 26-28 μ. longis. 2431

Hab. in ramis corticatis Alni glutinosæ in Germania et Britannia.

HENDERSONULA Speg. Fungi Arg. Pug. II. n. 127. (Etym. ab *Hendersonia*, cujus sporulas refert). — Stromata innata vel erumpentia atra, ostiolis punctiformibus non vel vix notata, orbicularia vel difformia intus locellos pallidiores sporuliferos gerentia. Sporulæ ellipticæ, pluriseptatæ, coloratæ, typice stipitatæ. — Est quasi *Hendersonia* stromate *dothideaceo* ornata.

1. **Hendersonula australis** Speg. F. Arg. Pug. II. n. 127. — Stromatibus orbicularibus vel confluendo difformibus, dense sparsis, epiphyllis, maculis nullis insitis, levibus vel rugulosis, atris, $^1/_2$-$1^1/_2$ mill. d.; loculis dothideaceis, constipatis, primo albis dein olivaceis, minutis, 80-90 μ. d.; sporulis ellipticis vel fusoideis, utrinque plus vel minus rotundatis, 2-3-septatis, ad septa constrictis, dilute olivaceis, 14-20 ≃ 4-5. 2432

Hab. ad folia viva Solani boerhaviæfolii in sepibus del Riachuelo in Argentina. — Sporulæ protrusæ stromata pulvere olivaceo obducunt.

2. **Hendersonula morbosa** Sacc. Cfr. Farlow Black Knot p. 440, t. V. f. 4-5. — Stromate maximo globoso-colliculoso, confluendo elongato, erumpenti-superficiali, extus atro et ob perithecia prominula inæqualiter papilloso; peritheciis seu loculis globosis, intus pallidioribus; sporulis ellipsoideis, utrinque rotundatis, 3-septatis, non constrictis, 12 ≃ 6, dilute flavidis; basidiis filiformibus sporulâ duplo vel triplo longioribus. 2433

Hab. in ramis adhuc vivis Prunorum variorum in America boreali. — Sistit pycnidium *Plowrightiæ morbosæ.* Cfr. Syll. II. p. 638.

STAGONOSPORA Sacc. ut subg. *Hendersoniæ*. Mich. II. p. 8. (Etym. *stagon* gutta, et *spora*). *Hendersoniæ* sectio *Sphærospora* Desm.

p. p. 17 Not. p. 16. — Perithecia innata vel erumpentia, globosa, sæpius papillato-pertusa, atra, membranacea vel subcarbonacea. Sporulæ ellipsoideæ vel elongatæ, typice 2-pluriseptatæ guttulatæque hyalinæ, rarius tantum 2-pluriguttatæ, nec distincte (ob immaturitatem?) septatæ. — Est *Hendersonia* hyalophragmia.

I. *In Dicotyledoneis.*

1. **Stagonospora innumerabilis** Fuck. Symb. p. 116 (Psilothecium). — 2434
Peritheciis densissime effuso-gregariis, subcutaneis, punctiformibus, fusco-nigris; sporulis cylindraceo-fusoideis, curvis, 6-7-septatis, hyalinis, 44 ≃ 4.

Hab. in alis caulis Cytisi sagittalis, socio st. ascophoro seu *Anthostomella Cytisi,* prope Œstrich Rhenogoviæ. — « Ad *Septoriam* vergere videtur ».

2. **Stagonospora hortensis** Sacc. et Malbr. Mich. II. p. 629. — Pe- 2435
ritheciis gregariis, epidermide velatis, globoso-lenticularibus, $^1/_4$ mill. diam., tenui-membranaceis, latiuscule pertusis; sporulis cylindraceo-oblongis, leniter curvulis, utrinque rotundatis, 4-guttulatis, denique 3-septatis, haud constrictis, 18-22 ≃ 7, hyalinis.

Hab. in caulibus Phaseolorum in cultis prope Rouen Galliæ (Malbranche). — *Stagonospora Malbrancheana* Mich. II. p. 629, speciminibus perfectioribus observatis, ascos præbuit, et revera ad *Metasphæriam lejostegam* verisimiliter spectat.

3. **Stagonospora Mespili** (West.) Sacc. *Hendersonia Mespili* West. 2436
Bull. ac. roy. belg. II. ser. t. 12. n. 7. — Maculis epiphyllis, sparsis vel confluentibus, rotundatis irregularibusve, brunneis, centro pallescentibus; peritheciis paucis, minutis, nigris, sparsis; sporulis hyalinis, ovalibus, piriformibus, 3-septatis.

Hab. in foliis Mespili in Belgio.

4. **Stagonospora prominula** (B. et C.) Sacc. *Hendersonia prominula* 2437
B. et C. North Amer. Fungi n. 429. — Peritheciis sparsis punctiformibus, prominulis; sporulis hyalinis, breviter clavatis, triseptatis, $10^3/_4$–18 μ. longis, subinde curvulis.

Hab. in foliis Piri Mali in Carolina infer.

5. **Stagonospora microscopica** (Fr.) Sacc. *Sphæria microscopica* Fr. 2438
Syst. II. p. 476. Fuck. Symb. p. 275, t. IV. f. 53. — Sparsa, atra; peritheciis nudis minimis ovatis, ostiolo subulato stricto breviusculo; sporulis anguste fusiformibus, rectis curvatisve, 8–10-septatis, 24 ≃ 2–3, hyalinis.

Hab. ad cortices et ramos subvivos vel putrescentes e. g. Ber-

beridis, Hederæ in Suecia, Germania, Gallia. — Nudo oculo haud conspicua: perithecia innato-nuda, glabra, levia, ostiolo vix longiore.

6. **Stagonospora turgida** (B. et Br.) Sacc. *Cryptosporium turgidum* B. et Br. Ann. N. H. n. 1899. — Peritheciis globosis, sat prominulis, obtusis; sporulis curvis, utrinque obtusis, tenuiter 3-septatis, 20 ≃ 5. 2439

Hab. in ramis Fraxini, Twycross Britanniæ (A. Bloxam).

7. **Stagonospora microspora** (B. et C.) Sacc. *Hendersonia microspora* B. et C. North Amer. Fungi n. 430. — Peritheciis sparsis e basi latiusculâ acutis, demum liberis, exiguis; sporulis minutis, hyalinis, angustis, breviter fusiformibus, trinucleatis, demum probabiliter 2-septatis. 2440

Hab. in Sambuco canadensi in Carolina super.

8. **Stagonospora cæspitosa** (B. et C.) Sacc. *Hendersonia cæspitosa* B. et C. North Americ. Fungi n. 427. — Peritheciis cæspitosis, minutis, brunneolis; sporulis breviter fusiformibus curvulis triseptatis, 25 μ. longis. 2441

Hab. in ramulis tenellis Sambuci? New England Amer. sept. 2442

9. **Stagonospora Evonymi** Sacc. *Gibberellæ Evonymi* pycnidium Fuck. Symb. p. 167. — Peritheciis cæspitosis, levibus, astomis, ovatis; sporulis in gelatina rosea expulsis, oblongis, 1-4-septatis, quandoque ad septa constrictis, hyalinis, 20-24 ≃ 6.

Hab. in ramis corticatis Evonymi europæi in Rhenogovia.

10. **Stagonospora hyalospora** (Berk.) Sacc. *Hendersonia hyalospora* Berk. Fl. New Zeal. p. 194, tab. CVI. fig. 8. — Peritheciis punctiformibus, nitidis, subastomis; sporulis linearibus, brevibus, hyalinis, triseptatis, 23-27 ≃ 4. 2443

Hab. in cortice Oleæ, Tehawera Novæ Zelandiæ (Colenso). — Maculas minutas format supra corticem.

11. **Stagonospora herbarum** (Cooke et Harkn.) Sacc. *Hypocenia herbarum* C. et H. in Grevill. 1881, p. 82. — Caulicola, erumpens; peritheciis atris, obtusis, in lineas dispositis; sporulis subclavatis, hyalinis, bi-trinucleatis, demum uni- vel biseptatis, 18 ≃ 3,5. 2444

Hab. in caulibus Asteris in California. — Habitus fere *Diaporthes* cujusdam, ad quam forte metagenetice pertinet.

12. **Stagonospora Senecionis** Sacc. *Pleosporæ Senecionis* pycnidium. Fuck. Symb. p. 136. — Peritheciis minutis, gregariis, deplanatis, papillatis, ostiolo perithecium æquante; sporulis minutis cylindraceis, 3-septatis, hyalinis. 2445

Hab. in caulibus siccis Senecionis nemorensis prope Œstrich Rhenogoviæ.

13. **Stagonospora caulicola** (Desm.) Sacc. *Hendersonia caulicola* Desm., Kickx Fland. t. 1, p. 390. — Peritheciis minutis, $^1/_5$–$^1/_4$ mill. diam., numerosis, tectis, nigris, convexis astomis, rotundatis, dein collabascentibus; sporulis oblongis, rectis, obtusis, 2–3 nucleatis vel septatis, 15 μ. longis, basidiis brevibus crassis suffultis. 2446

Hab. in caulibus siccis Polygoni Persicariæ aliarumque specierum in Belgio et Gallia.

14. **Stagonospora Lambottiana** Sacc. Misc. Myc. F. Belg. n. 11. — Peritheciis erumpenti-subsuperficialibus, globoso-depressis, vertice tandem (collabascendo?) excavatis, subastomis, atro-olivaceis $^1/_4$–$^1/_3$ mill. diam., contextu subprosenchymatico olivaceo-fusco; sporulis cylindraceis, curvulis, utrinque rotundatis, 14–18 ≃ 3–4, 3-septatis, non constrictis, hyalinis; basidiis dense fasciculatis, cylindricis, varie furcatis v. ramosis, 25–30 ≃ 2, hyalinis. 2447

Hab. in trunco ramisque corticatis emortuis Callunæ vulgaris, Verviers in Belgio (Lambotte). — In genere anceps, quia perithecia subastoma et fere pezizoidea.

15. **Stagonospora collapsa** (C. et Ellis) Sacc. *Hendersonia collapsa* C. et Ellis, New Jersey Fungi in Grev. V. p. 30. — Peritheciis sparsis, globosis, demum collapsis, cupulæformibus, atris, erumpentibus; sporulis fusiformibus, triseptatis, hyalinis, 25 ≃ 5. 2448

Hab. in ramis Aceris, New Jersey in Amer. bor.

16. **Stagonospora delicatula** (C. et E.) Sacc. *Hendersonia delicatula* C. et Ell. in Grevillea, t. 96, f. 26. — Gregaria; peritheciis subglobosis, atris, prominulis, erumpentibus, epidermide cinctis; sporulis subfusiformibus, hyalinis, nucleatis, dein tenuiter 3-septatis, 20 ≃ 4. 2449

Hab. in ramis Nyssæ, New Jersey Amer. bor.

17. **Stagonospora Populi** (Corda) Sacc. *Hendersonia Populi* (Corda) Lév. Ann. Sc. Nat. 1846, p. 288. *Sporocadus Populi* Corda Icon. Fung. III. p. 39, f. 109. — Gregaria, epidermide tecta; peritheciis solitariis, minutis, planis, atris, vertice dein ruptis; sporulis oblongis, subclavatis, supra obtusis, 5-cellulosis, albis, diaphanis, 20–23 μ. longis. 2450

Hab. in ramis putrescentibus Populi pyramidalis et P. tremulæ in Bohemia.

18. **Stagonospora sibirica** Sacc. Mich. II. p. 142. (sub *Hendersonia* 2451

sibirica). — Peritheciis e basi infossa subsuperficialibus, laxe gregariis, globoso-depressis, obtusiuscule papillatis, nigris, nitidulis ¼ mill. diam.; contextu minute sed distincte parenchymatico, fuligineo; sporulis oblongo-cylindraceis, utrinque rotundatis, 28–30 ≃ 9–10, rectis curvulisve, 3-septatis non constrictis, 4-guttatis, hyalinis, basidiis filiformibus triplo brevioribus suffultis.

Hab. in ramis induratis decorticatis arboris frondosæ, Minussinsk in Sibiria.

19. **Stagonospora Arcus** (B. et Br.) Sacc. *Hendersonia Arcus* B. et Br. Ann. N. H. n. 413. — Peritheciis gregariis dein nudis, globosis nigris; contextu chalybeo-azzureo; sporulis arcuatis, medio incrassatis, triseptatis, hyalinis; basidiis ramulosis. 2452

Hab. in ramis Buxi sempervivis, Batheaston in Anglia. — Forte pycnidium *Gibberellæ.*

20. **Stagonospora allantella** Sacc. Mich. I. p. 517 *(sub Hendersonia).* — Peritheciis gregariis, innato-erumpentibus, subglobosis, minutis, atris; sporulis fasciculatis, cylindraceis, curvulis, utrinque rotundatis, 5–6-septatis, 6–7-guttatis, 35–45 ≃ 4–5, hyalinis. 2453

Hab. in cortice levi Coryli (an Cerasi?) pr. Rouen in Gallia (Letendre).

21. **Stagonospora unica** (Cooke) Sacc. *Hendersonia unica* Cooke Præc. Monogr. Henders. p. 24. — Peritheciis.....; sporulis late lanceolatis, medio constrictis, 3–6-nucleatis, demum 1–5-septatis, hyalinis, ocellatis, interdum cristatis, 40–50 ≃ 20. 2454

Hab. ad lignum in Britannia (?). — Est massarioidea, teste Cooke, sed certe recedit quia epixyla et hyalospora.

22. **Stagonospora oppilata** (Fr.) Sacc. *Hendersonia oppilata* (Fr.) Curr. Simpl. Sphær. n. 336, fig. 114, *Sphæria oppilata* Fr. S. M. II. p. 493. — Sparsa, erumpens; peritheciis globosis levibus astomis nigris, nigrofarctis, ostiolo rimoso; sporulis amygdaliformibus, hyalinis, 7,5–10 μ. longis, endrochromate bipartito. 2455

Hab. in virgultis Betularum in Suecia. — « An potius *Diplodina?* » Majuscula, opaca, atra, ad dimidium prominens, primo farcta, ut *Sclerotium*, dein intus mollior, tremellosa et diffluens.

23. **Stagonospora Lophiostoma** (C. et E.) Sacc. *Hendersonia Lophiostoma* C. et E. in Grevillea t. 95, fig. 10. — Peritheciis erumpentibus, atris, lateraliter compressis; ostiolis elongato-fissis; sporulis clavatis, 1–3-septatis, hyalinis, longitudine variis, 15–30 ≃ 10. 2456

Hab. in ramis Ulmi, New Hampshire, New Jersey in America boreali (J. Blake).

24. **Stagonospora strobilina** (Curr.) Sacc. *Hendersonia strobilina* Curr. in Trans. Linn. Soc. XXII. p. 329. Cooke Handb. Brit. Fungi p. 932. — Peritheciis gregariis, irregularibus; sporulis amygdaliformibus, hyalinis, endochromate bipartito. 2457

Hab. in squamis aridis conorum Pini maritimæ, Coimbra in Britannia et Lusitania. — An potius *Psilospora?* An pycnidium *Dichœnæ strobilinæ* Fr.?

II. *In Monocotyledoneis et Acotyledoneis.*

25. **Stagonospora Smilacis** (Ellis et Mart.) Sacc. *Ascochyta Smilacis* Ell. et Mart. Amer. Nat. 1882, p. 100. — Maculis pallidis, rotundatis, brunneo-cinctis; peritheciis nigris, globosis, innatis, epiphyllis, 140 μ. diam.; sporulis subhyalinis, ovatis, triseptatis, 11–22 ≃ 6–7. 2458

Hab. in foliis Smilacis rotundifoliæ, Concord in Pensylvania.

26. **Stagonospora Heliconiæ** (Mont.) Sacc. *Hendersoniæ Heliconiæ* Mont. Syll. n. 944. — Hypophylla, innata, cæspitosa; peritheciis ovoideis tenuissimis, stromati grumoso pallido immersis, ostiolo prominulo; sporulis cymbiformibus hyalinis, triseptatis, breviter pedicellatis. 2459

Hab. in foliis Heliconiæ prope Cayennam (Leprieur).

27. **Stagonospora Musæ** (Cooke) Sacc. *Hendersonia Musæ* Cooke in Rav. Amer. Fungi n. 781. Grev. XII. p. 24. — Sparsa, tecta, punctiformis; peritheciis parvulis, subglobosis, fuscis; sporulis lanceolatis, triseptatis, hyalinis, 12 ≃ 4. 2460

Hab. in Musa (*Banana*), Darien, Georgia Amer. bor.

28. **Stagonospora cylindrocarpa** (Ell. et Everhart) Sacc. *Hendersonia cylindrocarpa* Ell. et Everhart in litt. — Peritheciis submembranaceis, subcuticularibus, convexis, subelongatis contextu grosse celluloso; ostiolis minutis papilliformibus; sporulis copiosis, cylindricis hyalinis v. hyalino-flavidis, utrinque obtusis, 3–4-nucleatis (tandemque septatis?), 13–15 ≃ 3¼–4. 2461

Hab. in scapis emortuis Brodiææ Howellii pr. Washington Amer. bor. (W. N. Suksdorf).

29. **Stagonospora macrospora** (Dur. et M.) Sacc. *Septoria macrospora* Dur. et Mont. Syll. p. 277. *Hendersonia piptarthra* Sacc. Mich. II. p. 111. *Hend. Montagnei* Cooke Præc. Hend. p. 19. — Amphigena; peritheciis immersis pachydermis, globosis, atris, epidermide tectis; sporulis maximis, cylindraceo-subclavatis, 3–5-se- 2462

ptatis, 60–70 ≃ 10–12, articulis tandem solubilibus, v. saltem 3–4-nucleatis, subhyalinis.

Hab. in foliis emarcidis Agaves, Algeria in Africa (Durieu), in Gallia (Roumeguère).

30. **Stagonospora Asphodeli** (Mont.) Sacc. *Ascospora Asphodeli* Mont. 2463
Syll. p. 274. *Hendersonia Asphodeli* (Mont.) Sacc. Mich. II. p. 280. — Peritheciis epidermide innatis subtectis globoso-ovoideis sparsis, ostiolo prominulo, atro-albo pulverulento; sporulis tereti-oblongis 20–25 ≃ 7–8, utrinque rotundatis, crasse 3-guttulatis, tenuiterque 2-septatis, hyalinis.

Hab. in caulibus et foliis Asphodeli fistulosi, A. albi, in Gallia et in Ital. boreali.

31. **Stagonospora Curtisii** (Berk.) Sacc. *Hendersonia Curtisii* Berk. 2464
in herb. Curt., Cooke Præcursor Monogr. Henders. p. 19. — Peritheciis .....; sporulis elongato-ellipsoideis, demum biseptatis, 17–21 ≃ 7,5.

Hab. in Narcisso in America boreali (?).

32. **Stagonospora Typhoidearum** (Desm.) Sacc. *Hendersonia Typhoidearum* Desm. Ann. Sc. Nat. 1849 Jun. *Darluca Typhoidearum* B. et Br. in Outl. of Br. Z. p. 318. — Sparsa, immersa; peritheciis minutis, globosis, brunneo-nigris; ostiolis prominulis, papillatis, pertusis; sporulis oblongis, rectis, utrinque obtusis, subfusiformibus, 4-globoso-nucleolatis. 2465

Hab. in foliis Typhæ in Anglia. — ***Sparganii** Fuck. Symb. p. 379. Peritheciis sparsis, primo tectis, dein subliberis, globosis, media magnitudine, aterrimis, levibus; ostiolis minutis, papillæformibus; sporulis magnis, fusiformibus, quadriloculatis, hyalinis, 26 ≃ 6. In foliis caulibusque Sparganii in Britannia et Germania.

33. **Stagonospora Luzulæ** (West.) Sacc. *Hendersonia Luzulæ* West. 2466
Bull. ac. roy. belge II. scr. t. XIX. n. 7, Mich. I. p. 210. — Peritheciis numerosis, sparsis, nigris, immersis, ovalibus vel sphæricis, ostiolis epidermidem nigrefactam nitidam perforantibus; sporulis cylindraceis utrinque rotundatis, 12–14 ≃ $2^1/_2$–4, plerumque rectis, 4-guttulatis, hyalinis.

Hab. in calamis vaginisque Luzulæ pilosæ et L. maximæ in Italia boreali, Gallia et Belgio. — Ad *Phomam* nutat.

34. **Stagonospora innumerosa** (Desm.) Sacc. *Hendersonia innumerosa* Desm. 19 Not. p. 10. — Culmicola; peritheciis innato-prominulis, minutissimis, 50 μ. diam., globosis, nigris, subnitidis, numerosissimis, in series longissimas parallelas dispositis, intus al- 2467

bis, poro apertis; sporulis subhyalinis, oblongis, obtusis, subellipsoideis, curvulis, 20–30 ≃ 5–7, nucleis 4, compressis, subcoloratis.

Hab. in culmis exsiccatis Junci maritimi in Gallia.

35. **Stagonospora insidiosa** (Desm.) Sacc. *Hendersonia insidiosa* Desm. 22 Not. p. 11. — Caulicola; peritheciis nigris, ovatis, prominulis, epidermide integra aut tandem fissa tectis, poro exiguo pertusis in macula effusa alba subgregariis; nucleo argillaceo; sporulis hyalinis, cylindricis, rectis vel subcurvulis, utrinque obtusis, 20–25 ≃ 5, nucleis 3–5 imperfectis. 2468

Hab. in caulibus exsiccatis Junci maritimi in Gallia.

36. **Stagonospora trimera** (Cooke) Sacc. *Hendersonia trimera* Cooke in herb., Præcursor Monogr. Henders. p. 19. — Peritheciis .....; sporulis elongato-ellipticis, biseptatis, 22 ≃ 6.5, subhyalinis. 2469

Hab. ad Juncum maritimum in Britannia (?) et in Fimbristyli autumnali in Amer. bor.

37. **Stagonospora aquatica** Sacc. Mich. II. p. 112 sub *Hendersonia aquatica*. — Peritheciis innatis, non v. vix erumpentibus, globulosis, $^1/_{10}$ mill. diam., ostiolo impresso, contextu minuto parenchymatico fuligineo; sporulis cylindraceo-fusoideis, leniter inæquilateralibus, 26–28 ≃ $5^1/_2$, utrinque obtusiusculis initio 4-guttatis, dein sub-3-septatis, haud constrictis, hyalinis. 2470

Hab. in calamis Scirpi triquetri in Gallia (Brunaud). — ***S. Karstenii** Sacc.: sporulis crassioribus, 25–39 ≃ 6–8. In calamis Scirpi lacustris in Fennia (Karsten). — ***S. junciseda** Sacc. Mich. II. p. 350. A typo differt peritheciis duplo majoribus prominulis; sporulis angustioribus et utrinque acutioribus, nempe 25–30 ≃ 3–$3^1/_2$, triseptatis, non constrictis hyalinis. In calamis Junci effusi v. affinis, mare de l'Etoile, Lyon in Gallia (Therry). — ***S. lacustris** Sacc. l. c.: peritheciis gregariis globoso-depressis, subcutaneis, vix papillatis, $^1/_5$ mill. diam.; sporulis fusoideis, subacutis, 26 ≃ $3^1/_2$, triseptatis, non constrictis, e chlorino hyalinis. In calamis Scirpi lacustris, Lyon in Gallia (Therry).

38. **Stagonospora Caricis** (Oud.) Sacc. *Hendersonia Caricis* Oud. Mater. Flora mycol. de la Neerlande II. pag. 19. — Peritheciis sparsis, sub epidermide nidulantibus eamque apice, poro pertuso, perforantibus, membranaceis, fuscis; sporulis hyalinis, fusiformibus, utrinque acutatis vel obtusis, rectis vel parum curvatis, absque pedicelli vestigio, denique plerumque 5-septatis, nucleis deficientibus, 25–40 ≃ 4–5. 2471

Hab. in foliis Caricis muricatæ, Noaldwijk in Neerlandia.

39. **Stagonospora macrosperma** Sacc. et Roum. Sacc. Mich. II. p. 629 (1882) sub *Hendersonia*. — Peritheciis subcutaneis vix erumpentibus, globoso-depressis, pertusis, 300–400 μ. diam.; sporulis tereti-fusoideis, utrinque obtusiusculis, 85–95 = 12–14, leniter curvis, 6–8-septatis, non constrictis, guttulatis e hyalino viridulis. 2472

Hab. in foliis graminum, Malmedy in Arduennis (Libert).

40. **Stagonospora gigaspora** Niessl, Hedw. 1882, p. 181 (sub *Hendersonia*). Peritheciis sparsis, majusculis, tectis, depresso-globosis, ostiolo punctiformi; sporulis subcylindraceis vel subfusiformibus, rectis, utrinque obtuse rotundatis, 6–8-cellularibus dilutissime virescentibus, 74–80 = 11–14. 2473

Hab. in foliis emortuis Caricis montanæ, Adamsthal in Moravia. — Verisimiliter non diversa a *Stag. macrosperma* Sacc. et Roum. anteriore.

41. **Stagonospora macropus** (B. et Br.) Sacc. *Darluca macropus* (B. et Br.) Cooke Handb. n. 1287. *Hendersonia macropus* B. et Br. N. H. n. 416. — Peritheciis omnino tectis depressis, dein collapsis, poro minuto pertusis epidermidemque atro-punctulantibus; sporulis longe pedicellatis, elongatis, cylindraceis, sæpe curvatis, 3–6-nucleolatis. 2474

Hab. in foliis emortuis Caricis in Britannia et Germania. — Teste Fuckel,, forma esset *Stag. Typhoidearum.*

42. **Stagonospora paludosa** (Sacc. et Sp.) Sacc. *Hendersonia paludosa* Sacc. et Sp. in Mich. I. p. 353. — Peritheciis gregariis in parenchymate foliorum immersis amphigenis, circa ostiolum epidermidi hærentibus, globosis, 100–120 μ. diam., papillulatis, vix denique erumpentibus, contextu membranaceo indistincte parenchymatico, fusco; sporulis fusoideis, utrinque acutiusculis, rectis curvulisve, 50–60 = 9–10, 8–10-septatis, ad septa non v. vix constrictis, grosse 9–11-guttatis, hyalinis. 2475

Hab. in foliis putrescentibus Caricis ripariæ, Bresseo (Euganei) in Ital. bor. — Ab affinibus *S. arundinacea, S. subseriata* et *S. Typhoidearum* magnitudine et septatione sporularum differt.

43. **Stagonospora arenaria** Sacc. Mich. I. p. 124 sub *Hendersonia* — Peritheciis gregariis subcutaneis dein, erumpentibus, globoso-lenticularibus, $^1/_4$–$^1/_5$ mill. diam., minutissime papillatis, quandoque subhysteriiformibus, atris, contextu minute sed distincte celluloso, ochraceo-fuligineo; sporulis cylindraceis rectis curvulisve utrin- 2476

que obtusiusculis, 30-35 ≃ $3^1/_2$-4, plasmate 4-partito 3-septatisque, hyalinis.

Hab. in culmis Elymi arenarii ad Skaereninsel östlich von Dalaroe prope Stokholm Daniæ (P. Magnus). — Ad genus *Septoriam* paullulum quoque vergit.

44. **Stagonospora intermixta** (Cooke) Sacc. *Hendersonia intermixta* Cooke in herb. Prærur. Monogr. Henders. pag. 19. — Perithe- 2477
ciis.....; sporulis fusoideo-elongatis, 7-septatis, flavidis, 50 ≃ 3,5.

Hab. in caulibus Milii multiflori in consortio *Hendersoniæ Castagnei* in Britannia (?).

45. **Stagonospora subseriata** (Desm.) Sacc. *Hendersonia subseriata* 2478
Desm. Exs. n. 1893, Kickx Flandr. t. I, pag. 390. — Peritheciis erumpentibus, 3-5-subseriatis, subinde confluentibus, minutis, nigris, globulosis, poro minuto pertusis; sporulis fusiformibus oblongis, 38-40 ≃ 7, 6-8-nucleatis, 3-6-septatisque, hyalinis.

Hab. in culmis siccis Enodii cœrulei aliorumque graminum in Belgio et Germania.

46. **Stagonospora Ischæmi** Sacc. Mich. I. p. 201 sub (*Hendersonia*). 2479
— Peritheciis gregariis v. longitudinaliter cæspitulosis, erumpentibus globulosis, papillatis; contextu parenchymatico, atro; sporulis cylindraceis v. oblongatis, 12 ≃ 4, initio 4-guttulatis, dein 1-septatis, tandem 3-septatis, ad septa non constrictis, hyalinis.

Hab. in culmis putrescentibus Andropogonis Ischæmi, Padova in Ital. bor.

47. **Stagonospora graminella** Sacc. Mich. I. p. 210 (sub *Hendersonia*). — Peritheciis gregariis, erumpentibus, globoso-papillatis, atris; contextu parenchymatico fuligineo; sporulis cylindraceis utrinque obtusiusculis, 18-20 ≃ 3-$3^1/_2$, (jugiter) 4-6-guttulatis, hyalinis. 2480

Hab. in culmis graminum inferiorum, Selva in Ital. bor. et Malmedy in Arduennis. — ***lophioides** Sacc. Mich. II. p. 111. A typo differt præcipue peritheciis compresso-oblongis ostioloque ipso subrimoso; sporulis cylindraceis, curvulis, utrinque obtusis, 15-16 ≃ 3, 4-nucleatis, hyalinis. In culmis tenellis Phragmitis, socio *Lophiotremate semilibero*, Rouen in Gallia (Letendre).

48. **Stagonospora vexatula** Sacc. Mich. II. p. 350 sub *Hendersonia vexatula*. — Peritheciis gregariis, innato-erumpentibus, globoso-conoideis, $^1/_3$ mill. diam., nigris, duriusculis; sporulis cylindraceis, utrinque rotundatis, 35-38 ≃ $4^1/_2$-5, quinque-septem-nucleatis, hyalinis. 2481

Hab. in culmis emortuis Phragmitis communis, Saintes in Gallia (Brunaud). — A *S. vexata* Sacc. (Mich. I. 211, II. 112) differt sporulis multo minoribus.

49. **Stagonospora dolosa** Sacc. et Roum. in Mich. II. p. 630 (sub *Hendersonia*). — Peritheciis erumpenti-superficialibus, globoso-papillatis, $^1/_2$ mill. diam., atro-nitidulis; sporulis fusoideis, rectis v. curvulis, 60-70 ≃ 10, quinqueseptatis, 6-nucleatis, non constrictis, hyalinis. 2482

Hab. in culmis Phragmitis, Malmedy in Arduennis (Libert). — Habitus *S. vexatæ*, sed sporulæ diversæ.

50. **Stagonospora vexata** Sacc. Mich. I. p. 211 et II. p. 112 (sub *Hendersonia arundinacea*, non vero Desm.) — Peritheciis innato-erumpentibus, sæpe seriatis, globoso-papillatis, atris; sporulis cylindraceo-bacillaribus, utrinque rotundatis, 60-70 ≃ 7, 10-12-septatis, 11-13-guttulatis, hyalinis. 2483

Hab. in culmis Phragmitis communis, sociâ *Leptosphæriâ arundinaceâ*, Selva, Padova in Ital. bor. — β. **pauperior** Karst. Symb. myc. Fenn. XIII. p. 12; sporulis fusoideo-bacillaribus, hyalinis, 5-7-septatis, 7-8-guttulatis, 65-75 ≃ 9-10. In culmis Phragmitis communis, Aboa Fenniæ.

51. **Stagonospora hysterioides** (Karst.) Sacc. *Hendersonia hysterioides* Karst. Hedw. 1884, p. 60. — Peritheciis gregariis, erumpentibus, elongatis, hysteriiformibus, usque ad 1 mill. longis; sporulis fusoideo-bacillaribus, rectis, simplicibus (semper?), 4-6-guttulatis, hyalinis, 14-16 ≃ 3. 2484

Hab. in culmis emortuis Phragmitis communis, Aboa in Fennia.

52. **Stagonospora neglecta** (West.) Sacc. *Hendersonia neglecta* West. Exs. n. 1224, Kickx Fl. crypt. Fl. I. p. 390. — Peritheciis perexiguis, sparsis, copiosissimis, innatis, globulosis, nigris, epidermide subinflata albaque tectis, poro pertusis; sporulis fusoideis, hyalinis, 3-septatis. 2485

Hab. in vaginis Phragmitis communis, Ostende et Nieuport in Belgio (Westendorp).

53. **Stagonospora Arundinis** (Cooke) Sacc. *Hendersonia Arundinis* Cooke Præcursor Monogr. Henders. p. 19. — Peritheciis.....; sporulis ovatis, ellipticis vel elongatis, 1-3-septatis, polymorphis, flaveolis, 15-20 ≃ 6. 2486

Hab. in Arundine Donace in Britannia (?).

54. **Stagonospora epicalamia** (Cooke) Sacc. *Hendersonia epicala-* 2487

mia Cooke, Præcursor Monogr. Henders. p. 19. — Peritheciis.....; sporulis subfusiformibus, obtusis, triseptatis, 30 ≃ 5, subhyalinis.

Hab. ad culmos Arundinis in Britannia (?).

55. **Stagonospora Rauii** (Ell.) Sacc. *Hendersonia Rauii* Ell. Torr. bot. Club. 1882, p. 133. — Pustuliformis; sporulis oblongo-ellipticis, 2-nucleatis, subhyalinis, 9-11 ≃ 3,5, basidiis æquilongis suffultis. 2488

Hab. in capsulis Polytrichi formosi prope Bethlehem Americæ bor. (Rau).

MASTOMYCES Mont. Ann. Sc. Nat. 3. X. p. 134, t. 6, f. 4 (1848). (Etym. *mastos* mamma, et *myces* fungus). *Topospora* Fr. F. Natal. p. 33 (1848). — Perithecia gregaria, innato-erumpentia, nigra, oblonga, ventricosa, ostiolata, ostiolo papillæformi, tota e fibris parallelis olivaceis composita. Sporulæ fusiformes, triseptatæ, hyalinæ, longissime pedicellatæ, tandem cum gelatina erumpentes.

1. **Mastomyces Friesii** Mont. l. c. p. 135, t. 6, f. 4. *Sphæria uberiformis* Fries Syst. Myc. II. p. 491. *Topospora uberiformis* Fr. F. Natal. p. 33. — Gregaria, erumpens; peritheciis elongatis, ventricosis, utrinque attenuatis, nigris, ostiolo crasso papiliæformi; sporulis fusoideis, 3-septatis, utrinque acutis ad septa leniter constrictis, 16-20 ≃ 2,5, hyalinis; basidiis capillaribus sporulâ 4-5-plo longioribus. 2489

Hab. in ramis emortuis Ribis nigri in Suecia. — Perithecia tota erumpentia, liberata, lineam longa, subinde cæspitosa, basi stipitiformi intra corticem delitescente, rigida, levissima, subnitida, in ostiolum magnum coarctatum angustata. — Habitus fere *Bombardiæ*.

2. **Mastomyces? proboscidea** (Fr.) Sacc. *Sphæria proboscidea* Fr. in Kunze et Schm. Heft. II. p. 53. *Topospora proboscidea* Fr. F. Natal. p. 32, et Summa V. S. p. 415. — Subcorticalis; peritheciis elongatis cylindricis, glabris, nigris, ostiolo papillæformi, erumpente; sporulis..... 2490

Hab. in ramis emortuis salicinis in Suecia.

REPERTORIUM

SPHÆRIOIDEARUM PHRAGMOSPORARUM

SECUNDUM MATRICES

Obs. A. indicat *Angiopoma*. — C. *Coutarea*. — Cr. *Cryptostictis*. — H. *Hendersonia*. — Hu. *Hendersonula*. — L. *Lichenopsis*. — M. *Mastomyces*. — P. *Prosthemium*. — S. *Stagonospora*.

N. 2288 — 2490 citantur 288 — 490

Abies — H. 327.
Acer — H. 293. 346. — S. 448.
Agave — S. 462.
Ailanthus — H. 293.
Alnus — P. 431.
Ammophila — H. 392.
Ampelopsis — H. 293.
Andropogon — S. 479.
Apluda — H. 390.
Araucaria — H. 350.
Aristida — H. 403.
Arundo — H. 397. 400. 401. — S. 486. 487.
Asphodelus — S. 463.
Aster — S. 444.

Berberis — H. 293. — Hu. 438.
Betula — H. 414. — P. 430. — S. 455.
Brachypodium — H. 391.
Brodiæa — S. 461.
Bromus — A. 422.
Buxus — S. 452.

Calluna — S. 447.
Calycanthus — H. 293.
Camellia — H. 355.
Capparis — H. 288. 371.
Carex — H. 386. — S. 471. 473. 474. 475.
Carpinus — H. 408. 409.
Carya — H. 418.
Celtis — H. 317. — L. 423.
Cerasus — S. 454.
Chrysobactron — H. 406.
Convolvulus — H. 369.
Cornus — H. 298. 299. 336. — L. 423.
Corylus — H. 348. — S. 453.
Cupressus — H. 353.
Cydonia — H. 337. 339. 340.
Cytisus — S. 434.

Delphinium — H. 357.

Elymus — S. 476.
Enodium — S. 478.
Eucalyptus — H. 319. 320.
Evonymus — S. 442.

Fagus — H. 410.
Ficus — H. 325.
Fimbristylis — S. 469.
Fourcroya — H. 380.
Frangula — H. 297.
Fraxinus — H. 290. — Hu. 439.

Galega — H. 293.
Galium — H. 355.
Gladiolus — H. 379.
Gleditschia — H. 294.
Glyceria — H. 404.
Graminaceæ — S. 472. 480.

Hedera — H. 293. — Hu. 438.
Heliconia — S. 459.
Humulus — H. 355. 375.
Heracleum — H. 365.

Iasminum — H. 288. 293.
Iuncus — H. 399. — S. 467. 468. 469.
Iuniperus — H. 352. 354.

Lagenaria — H. 370.
Lagerstrœmia — H. 289.
Laurus — H. 289. 293.
Lecidea — H. 407.
Lilium — H. 382.
Liriodendron — H. 289.
Lonicera — H. 307. 308. 309. 310. — Cr. 428.
Lupinus — H. 359.
Luzula — S. 466.
Lychnis — H. 355.

Magnolia — H. 331.
Magydaris — H. 366.
Medicago — H. 358.
Mespilus — S. 436.
Milium — H. 402. — S. 477.
Morus — H. 413.
Musa — S. 460.

Narcissus — S. 464.
Nyssa — S. 449.

Olea — C. 421. — S. 443.

Parietaria — H. 369.
Paronychia — H. 362.
Phaseolus — S. 435.
Phragmites — H. 389. 382. 393. 394. 395. 396. 397. 398. 399. — S. 480. 481. 482. 483. 484. 485.
Pinus — H. 328. 351. — S. 457.
Pirus — H. 290. 341. 342. 420. — S. 437.
Platanus — H. 411.
Polygonum — H. 373. — S. 446.
Polytrichum — S. 488.
Populus — H. 289. 293. 333. 337. 349. — S. 450.
Prunus — H. 288. 290. 337. 338. — Hu. 433.

Quercus — H. 329. 335. 337. 345. 416. 417. — Cr. 426.

Rhamnus — H. 296.
Rhododendron — H. 344. — Cr. 427.
Rhus — H. 289. 323. 324.
Ribes — M. 489.
Robinia — H. 329.
Rosa — H. 314. 315. 332. 407. — Cr. 424. 429.
Rosmarinus 421.
Rubus — H. 292. 293. 316. 317. 333.
Ruscus — H. 384.

Sabal — H. 376.
Salicornia — H. 374.
Salix — H. 290. 326. 337. — M. 490.
Sambucus — H. 293. 303. 304. 305. 306. 355. — Hu. 440. 441.
Scirpus — H. 385. — S. 470.
Senecio — S. 445.
Smilax — S. 458.
Solanum — H. 367. 368. — Hu. 432.
Sorbus — H. 290. 343.
Sorghum — H. 388.
Sparganium — H. 377.
Spiræa — H. 361.
Statice — H. 372.
Symplocos — H. 322.
Syringa — H. 301. 302.

Tecoma — H. 321.
Tephrosia — H. 360.
Thea — H. 334.
Tilia — H. 318.
Triticum — H. 405.
Typha — H. 378. — S. 465.

Ulmus — S. 456.
Umbelliferæ — H. 363. 364.

Viburnum — H. 300. 337.
Vitis — H. 293. 311. 312. 313. 314. — — Cr. 425.

Wistaria — H. 295.

Xerophyllum — H. 383.

Yucca — H. 381.

Zea — H. 373.

Sect. 6. **Dictyosporæ** Sacc.

Sporulæ ovoideæ vel oblongæ, 2-pluriseptato-muriformes, vel radiatim vel cruciatim septatæ, fuligineæ vel olivaceæ (Formæ *hyalophragmiæ* hucusque desiderantur).

Clavis analytica generum.

I. Perithecia discreta.

§ Sporulæ episporio levi seu non reticulato ornatæ.

Camarosporium. Perithecia corticola, subcutanea vel erumpentia.
Cytosporium. Perithecia xylogena, subsuperficialia.

§§ Sporulæ episporio reticulato ornatæ.

Endobotrya. Perithecia subcutanea; sporulæ intus articulos globosos transverse seriatos foventes.

II. Perithecia stromate dothideaceo subimmersa.

Dichomera. Est Camarosporium stromaticum.

CAMAROSPORIUM Schulz. Myk. Beitr. 1870 p. 649, Sacc. Mich. II. p. 8. (Etym. *kamara* fornix, cella, et *spora*), *Dichomera* Cooke p. p., *Staurosphæria* Rabenh. p. p. — Perithecia subcutaneo-erumpentia, discreta, globulosa, atra, sæpius papillata, membranacea vel subcoriacea. Sporulæ ovoideæ oblongæ vel fusoideæ, 2-pluriseptato-muriformes, fuligineæ vel olivaceæ.

I. *In ramis, rarius fructibus Dicotyledonearum lignosarum.*

1. **Camarosporium Robiniæ** (West.) Sacc. *Hendersonia Robiniæ* West. 2491
Crypt. class. p. 375. — Peritheciis subglobulosis, brunneis, cortice immersis, initio sparsis dein lineatim seriatis epidermidem perforantibus; ostiolo subpapilliformi; sporulis ovali-elongatis, brunneis, 6-8-septato-muriformibus, 15-16 ≃ 7.

Hab. in ramulis emortuis Robiniæ Pseudacaciæ in Gallia, Belgio, Italia, Britannia, Bavaria, Austria inf. et Amer. sept. — — Verisimiliter pycnidium *Cucurbitariæ elongatæ.*

2. **Camarosporium subfenestratum** (B. et C.) Sacc. *Hendersonia subfenestrata* B. et C. North Americ. Fungi n. 427bis — Peritheciis sparsis congestisve; sporulis 5-7-septatis, verticaliter divisis, oblongis, utrinque obtusis, 15-25 ≃ 5$^1/_2$-7. 2492

Hab. in ramis Robiniæ in Carolina sup. Amer. bor. — « An diversum a *C. Robiniæ?* et *C. Berkeleyano?* ». Sec. Farlow Bost. Fungi p. 252 huc spectat *Sphæria pubens* Schw.

3. **Camarosporium Triacanthi** Sacc. in Mich. I. p. 507 sub *Hendersonia.* — Perithecis erumpentibus, sæpe cæspitulosis, globosis, papillatis, nigris; sporulis oblongis, 20 ≃ 8, 4-5-septato-muriformibus, fuligineis. 2493

Hab. in ramis putrescentibus Gleditschiæ Triacanthi in Cadore (Belluno) Ital. bor. — β. **minus** Sacc. Fung. Gall. n. 2173; sporulis sæpius 3-septato-muriformibus, 16-18 ≃ 8-10, fuligineis. — In leguminibus Gleditschiæ Triacanthi, Saintes Galliæ (Brunaud).

4. **Camarosporium Coronillæ** Sacc. et Sp. in Mich. I. pag. 208 sub *Hendersonia* — Perithecis sparsis v. aggregatis, erumpentibus, olivaceo-nigris, globulosis, papillatis, denique umbilicatis; sporulis oblongis, utrinque rotundatis, rectis curvulisve, 15-18 ≃ 6-8, 3-5-septato-muriformibus, rarius ad septa constrictis, dilute fuligineis. 2494

Hab. in ramulis Coronillæ Emeri, Susegana in Ital. bor., sociâ *Cucurbitariâ Coronillæ* (Fr.) Sacc. (Spegazzini). — β. **Coluteæ** Sacc. Rel. Lib. IV. n. 143: sporulis 16-18 ≃ 6-7, 3-septato-muriformibus, fuligineis. Ad ramulos Coluteæ, Malmedy in Arduennis (Libert). — γ. **Lauri** Sacc. Mich. I. p. 516: perithecis gregariis, innato-erumpentibus; sporulis ovato-oblongis, 20 ≃ 8, 3-septato-muriformibus, olivaceo-fuligineis. — In ramulis Lauri nobilis pr. Rouen Galliæ (Letendre).

5. **Camarosporium Coluteæ** (P. et C.) Sacc. *Hendersonia Coluteæ* P. et C. 33. Rep. St. Mus. pag. 23. — Perithecis prominentibus, erumpentibus, hemisphæricis vel subconicis, firmis, ostiolo nigro papilliformi; sporulis oblongis, obtusis, coloratis, 3-6-septatis, subinde longitudinaliter septatis, 20-25 μ. longis. 2495

Hab. in ramis emortuis Coluteæ arborescentis, Buffalo. — An eadem ac *C. Coronillæ* β.?; sporulæ tamen in hoc minores et parcius septatæ.

6. **Camarosporium Laburni** Sacc. et Roum. Mich. II. p. 630. — Peritheciis corticolis, gregariis, globosis, ¼-½ mill. diam., breve papillatis, nucleo atro; sporulis oblongis, utrinque rotundatis, 7-9-septatis muriformibusque, 30-32 ≃ 9-10, ad septa vix constrictis, fuligineis, breve hyalino-stipitatis. 2496

Hab. in ramis Cytisi Laburni in Gallia merid. — Pycnidium *Cucurbitariæ Laburni.*

7. **Camarosporium alpinum** Speg. Dec. Mycol. 112 (sub *Henders.*) Sacc. Mich. II. p. 166. — Peritheciis cæspitosis, rarius subsparsis, erumpentibus, globosis, papillulatis, atris, contextu densissime parenchymatico, fuligineo; sporulis ellipsoideis v. ovoideis, 12–15 ≃ 5–6, utrinque obtusiusculis, 3–4-septatis, septo uno alterove longit., fuligineo-olivaceis. 2497

Hab. in ramulis Sarothamni scoparii in alpinis M. Borgà Cimolais, Carnia in Italia bor. (Spegazzini). — Valde recedit a statu macrostyl. *Cucurbitariæ Spartii*, qui describitur a Fuck. Symb. Nachtr. I. 20 et II. 32.

8. **Camarosporium abnorme** (Peck) Sacc. *Hendersonia abnormalis* Peck 33. Rep. St. Mus. 23. — Peritheciis numerosis, minutis, subconicis, ramulos omnino ambientibus, maculis subfuligineis insidentibus, pustulas minutas corticales formantibus, dein epidermidem perforantibus ostioloque minuto rotundo dehiscentibus; sporulis ellipticis vel oblongis, coloratis, 15–28 ≃ 10, 6-septatis muriformibusque. 2498

Hab. in ramulis Celastri scandentis, Charlton Amer. bor.

9. **Camarosporium polymorphum** (De Not.) Sacc. in Mich. I. p. 208 sub *Hendersonia. Diplodia polymorpha* De Not. Micr. Ital. IV. f. 5. — Peritheciis sparsis, globulosis, papillulatis, e fibris ligneis erumpentibus; sporulis ellipsoideis, initio continuis stipitellatis, dein 3-4-septato-muriformibus, 10 ≃ 8, ad septa non v. vix constrictis, fuligineis. 2499

Hab. in ramis Loniceræ Xylostei in Ital. bor., in caulibus Rutæ, Saintes in Gallia (Brunaud). — Huic paullulum affine est *C. sarmenticium* Sacc. Teste Cooke, huc spectaret *Hendersonia Loniceræ*, de qua cfr. suo loco. — β. **Rutæ** Sacc. F. Gall. n. 2255: sporulis ovato-globosis, 2–3-septato-muriformibus, subinde cruciatim septatis, fuligineis, 10–15 ≃ 8–10. — In caulibus Rutæ, Saintes (Brunaud).

10. **Camarosporium Xylostei** Sacc. *Didymosphæriæ Xylostei* st. macrostylosp. Fuck. Symb. p. 141. — Peritheciis sparsis, in cortice sub epidermide nidulantibus, demum subliberis, minutis, conico-globosis, atris, minutissime papillatis; sporulis oblongo-ovatis, utrinque attenuatis, nec non obtusis, 3–5-septatis muriformibusque, ad septa constrictis, fuscis, 18–20 ≃ 8. 2500

Hab. in ramis corticatis mortuisve vivisve Loniceræ Xylostei pr. Hattenheim Germaniæ.

11. **Camarosporium macrosporum** (Berk. et Br.) Sacc. *Hendersonia* 2501

macrospora Berk. et Br. Ann. of Nat. Hist. II. p. 413. *Hendersonia pulchella* Sacc. Myc. ven. sp. p. 200, t. XVII. f. 22-23. — Peritheciis tectis sparsis, nigris, globoso-hemisphæricis, papillulatis, $^1/_2$ mill. diam.; sporulis lanceolatis, 20 ≃ 7, primo 1-septatis, denique 4-5-septatis, ad septa constrictis parceque muriformibus fusco-lutescentibus.

Hab. in ramulis Philadelphi coronariæ in Ital. bor., Anglia, Germania, Austria infer.

12. **Camarosporium Rosarum** (West.) Sacc. *Staurosphæria Rosarum* West. Exs. n. 1371, Kickx Fland. t. I. p. 399. — Peritheciis minutis, sparsis, immersis, nigris, ostiolo papilliformi epidermidem perforante; sporulis numerosis, rotundatis, brunneis, tri-septatis; septis obliquis ad centrum convergentibus; basidiis filiformibus, brevibus, simplicibus. 2502

Hab. in ramis dejectis Rosarum, Gand in Belgio. — Sporulæ potius *Dichomeræ* sed perithecia discreta.

13. **Camarosporium rubicolum** Sacc. Mich. I. p. 209, sub *Hendersonia*. — Peritheciis sparsis, globulosis, minutis, erumpentibus; sporulæ oblongo-ovoideis v. subangulosis, utrinque rotundatis, 12-14 ≃ 6, 3-4-septato-muriformibus, ad septa non constrictis, fuligineis, initio vero continuis et breviter stipitatis. 2503

Hab. in ramulis Rubi fruticosi, Padova in Ital. bor.

14. **Camarosporium Padi** Brunaud in Roum. Revue Mycolog. — Peritheciis nigris minutis gregariis, sæpe lineatim dispositis, cortice tectis; sporulis brunneis, ovalibus elongatis utrinque leniter rotundatis, 5-septatis, loculis mediis longitudinaliter septatis et constrictis, 18-20 ≃ 5-6,5. 2504

Hab. in ramis emortuis Pruni Padi, Saintes in Gallia.

15. **Camarosporium multiforme** Sacc. et Schulz. Ill. Fung. Slav. n. 87. — Peritheciis cortice secedente, superficialibus, globulosis, obtuse papillatis, perexiguis, $^1/_{10}$-$^1/_6$ mill. diam., atris, tenuibus; sporulis oblongis v. sarciniformibus cruciatim v. muriformi-1-3-septatis, fuligineis, ad septa constrictis, 9-12 μ. cr. vel usque 18 μ. longis. 2505

Hab. in ramulis Cydoniæ vulgaris pr. Vinckovce Slavoniæ.

16. **Camarosporium Tiliæ** Sacc. et Penz. Mich. II. p. 630. — Peritheciis gregariis, peridermio pustulatim elevato tectis, globoso-depressis atris, ostiolo obtuso vix erumpente; sporulis obovatis, basi acutiusculis, apice rotundatis v. subinæqualibus, 8-10 ≃ 6-7, 2-3-septatis muriformibusque fuligineis. 2506

Hab. in ramis corticatis emortuis Tiliæ europææ in Gallia (Letendre). — Affine *Cam. incrustanti* Sacc.

17. **Camarosporium sarmenticium** Sacc. Mich. I. p. 96. — Peritheciis sparsis erumpenti-superficialibus, subcarbonaceis, globosis, majusculis, atris, in ostiolum breve cylindraceum attenuatis; sporulis e globoso ellipsoideis, inæqualibus, 22 ≃ 12-14, sæpe in basim subcuneatis, 3-septato-muriformibus, ad septa vix constrictis, opace fuligineis, loculis extimis pallidioribus. 2507

Hab. in sarmentis corticatis Hederæ Helicis, Padova in Italia boreali.

18. **Camarosporium viticolum** (C. et Harkn.) Sacc. *Dichomera viticola* Cooke et Harkn. Grev. 1881, p. 83. — Sparsum, erumpens; peritheciis atris, subglobosis, prominulis; sporulis subglobosis, septatis, cellulâ alterâ longitudinaliter divisis, fuscis, 8 ≃ 6. 2508

Hab. in racemis Vitis exsiccatis in California.

19. **Camarosporium Cerei** (Peck) Sacc. *Hendersonia Cerei* Peck. Botan. Gazet. p. 55. — Peritheciis minutis, hemisphæricis, dein collapsis v. depressis, ostiolo papilliformi, nigris; sporulis numerosis, oblongis, dilute coloratis, 3-septatis, ad septa constrictis, 20-22 ≃ 4-5, loculo secundo superiore longitudinaliter diviso. 2509

Hab. in cortice emortuo Cerei gigantei, Arizona in Amer. bor. (Pringle).

20. **Camarosporium Visci** Sacc. *Gibberideæ Visci* st. macrostylosp. Fuck. Symb. p. 169. — Peritheciis liberis, cæspitosis, in stromate spurio dense dispositis, majusculis, globosis, aterrimis, ostiolis papillatis, demum distincte perforatis; sporulis oblongis, subfusiformibus, rectis curvatisve, plerumque 7-septatis, raro septo longitudinali, sub medio arcte constrictis, pallide flavis, 32 ≃ 6, quandoque stipitibus longis adhuc adhærentibus; subinde spermatiis intermixtis cylindraceo-ovatis, rectis, hyalinis, 6 μ. long. 2510

Hab. in ramulis siccis Visci albi in Jura Helvetiæ (Morthier).

21. **Camarosporium incrustans** Sacc. Mich. I. p. 208. sub *Hendersonia.* — Peritheciis cortice nidulantibus, sparsis v. sæpius aggregatis, globosis, papillulatis, atris, pachydermaticis; sporulis ovoideis initio continuis guttulatis, flavo-lutescentibus dein 3-septato-muriformibus, 15-17 ≃ 8, ad septa non v. vix constrictis, opace fuligineis. 2511

Hab. in ramis corticatis Rhois typhinæ, Padova in Ital. bor., sociâ *Thyridariâ incrustante* Sacc., et Corni sanguineæ, Selva in Ital. bor.

22. **Camarosporium rhoinum** (Cooke et Harkn.) Sacc. *Dichomera rhoina* Cooke et Harkn. in Grev. 1881, p. 83. — Sparsum; perithecis subglobosis, atris, demum denudatis, obtusis; sporulis ellipticis, triseptatis, cellula una alterave transverse divisa, fuscis, 20 ≃ 8. 2512

Hab. in ramis emortuis Rhois trilobæ in California.

23. **Camarosporium Berkeleyanum** (Lév.) Sacc. *Hendersonia Berkeleyana* Lév. in Ann. Sc. Nat. 1846, p. 289. — Peritheciis cæspitosis globosis glabris nigris erumpentibus, stromate corticali effuso atro maculæformi insidentibus, ostiolis papillatis; sporulis elliptico-cylindricis, utrinque obtusis, 3-4-septatis, septis 1-2 longitudinaliter divisis, leniter opacis. 2513

Hab. in ramis deciduis Ailanthi glandulosæ, Paris in Gallia et New York in Amer. bor. — Sec. Farl. Fungi Bost. p. 252 vix differt a *C. subfenestrato.*

24. **Camarosporium cruciatum** (Fuck.) Sacc. *Coniothyrium cruciatum* Fuck. Symb. myc. pag. 173. — Peritheciis gregariis, primo tectis demum subliberis, globosis, depressisve, papillatis, atris; sporulis in basidiorum brevium apicibus ortis, irregulariter rotundatis oblongisve, utrinque obtusissimis, aliis simplicibus, multo sæpius vero 1-4-septatis, septis sæpe cruciatis submuriformibusque, fuscis, magnitudine variis, 6-10 μ. diam. longioribusve. 2514

Hab. in ramis Alni campestris in Germania et Ital. bor.

25. **Camarosporium Quercus** Sacc. et Roum. Reliq. myc. Libert. IV. n. 142. — Peritheciis cæspitulosis, erumpentibus, globulosis, obtuse papillatis, ⅓ mill. d., atris; sporulis oblongis, utrinque rotundatis 5-septato-muriformibus, haud constrictis, 25-28 ≃ 8-10, fuligineis; basidiis quarta parte brevioribus, filiformibus. 2515

Hab. in ramis corticatis Quercus, Malmedy in Arduennis. — Sistit probabiliter pycnidium Otthiæ Quercus.

26. **Camarosporium Mori** Sacc. Mich. I. p. 208, sub *Hendersonia.* — Peritheciis erumpentibus, gregariis v. aggregatis, globulosis, breviter papillatis, aterrimis; contextu parenchymatico fusco; sporulis oblongo-ovoideis, 22 ≃ 10, quandoque inæqualibus, 3-5-septato-muriformibus, ad septa non constrictis, fuligineis. 2516

Hab. in ramis Mori albæ, Conegliano in Ital. bor. (Spegazzini). — Huc probabiliter spectat *Camarosporium Mori* Schulz. Myk. Beitr. 1870 p. 649 (Slavonia), et *Hender. Mori* Kalchbr. Hedw. 1866 p. 191 (Hungaria).

27. **Camarosporium propinquum** Sacc. Mich. I. p. 516 sub *Hender-* 2517

sonia. — Peritheciis subcutaneo-erumpentibus gregariis, globoso-papillatis nucleoque farcto nigris, $^1/_3$ mill. diam.; sporulis ovato-oblongis, 15–16 ≃ 8, 3-septato-muriformibus, non constrictis fuligineis, basidiis brevibus, crassiusculis initio suffultis.

Hab. in ramulis Salicis vitellinæ, Rouen in Gallia (Letendre).

28. **Camarosporium salicinum** Sacc. Rouss. et Bomm. Miscell. Myc. F. Belg. n. 13. — Peritheciis subcutaneo-erumpentibus, globoso-papillatis atris, laxe gregariis, $^1/_2$ mill. diam.; sporulis ellipsoideis, 3-septato-muriformibus, ad septa constrictis, utrinque rotundatis, 18–20 ≃ 8–10, fuligineis; basidiis..... non visis. 2518

Hab. in ramis corticatis salicinis, sociâ *Diplodiâ salicellâ* Sacc. prope Bruxelles Belgii. — *Camarosporio propinquo* nimis forte affinis species.

29. **Camarosporium picastrum** (Fr.) Sacc. *Sphæria picastra* Fr. S. M. II. p. 463 p. p., Curr. Simpl. Sphær. pag. 320. — Sparsum, atrum, opacum; peritheciis ellipticis, conico-depressis, innatis, rugulosis, umbilicatis; sporulis fusco-brunneis, septato-muriformibus, 20 ≃ 6–7. 2519

Hab. in ligno indurato resinoso Pini silvestris in Germania.

30. **Camarosporium Pini** (Westd.) Sacc. *Hendersonia Pini* West. Bul. Ac. belg. II. ser. t. 2, n. 7. — Peritheciis corticolis, sparsis minutis nigris immersis; epidermide leniter elevata ostioloque minute perforata tectis; sporulis ovalibus, brunneis, 3-septatis, septisque 1-2 verticalibus divisis. 2520

Hab. in cortice Abietis excelsæ, Mons in Belgio et in Germania.

31. **Camarosporium partitum** (B. et C.) Sacc. *Hendersonia partita* B. et C. North Americ. Fungi n. 428 bis. — Peritheciis cæspitosis opacis epidermide cinctis; sporulis oblongis obtusis v. utrinque leviter attenuatis 5-7-septatis, septisque verticaliter divisis, 25–40 μ. longis. 2521

Hab. in ramulis, New Jersey in America septentr.

32. **Camarosporium papillatum** (Pr.) Sacc. *Sporocadus papillatus* Pr. Fungi Hoyersw. n. 51. — Peritheciis gregariis, oblongis, ellipticis, papillatis, polymorphisque atris; basidiis minutis, albis; sporulis oblongis, fuscis, utrinque subacutis, transversim septatis sæpeque longitudinaliter. 2522

Hab. in ramis arborum frondosarum decorticatis, Hoyerswerda.

II. *In foliis Dicotyledonearum lignosarum.*

33. **Camarosporium Tini** Sacc. Mich. I. p. 209 sub *Hendersonia Tini.* 2523
— Peritheciis foliicolis, punctiformibus, innato-erumpentibus, globulosis nigris; sporulis initio stipitellatis, 12 ≃ 7, 3-septato-muriformibus, dilute fuligineis.

Hab. in foliis languidis Viburni Tini, Selva in Ital. bor.

34. **Camarosporium Lantanæ** (Fleisch.) Sacc. *Hendersonia Lantanæ* 2524
Fleisch. in Rabh. Fung. Eur. 1255, Hedwig. 1869, p. 89. — Peritheciis globosis, inter pilos matricis liberis, ut videtur, astomis; sporulis oblongis tri-raro biseptatis, fuscis longitudinaliterque septatis, 12–18 ≃ 8.

Hab. ad folia Viburni Lantanæ in Germania.

35. **Camarosporium Cookeanum** (Speg.) Sacc. *Hendersonia Cookeana* 2525
Speg. Amp. p. 27. — Foliicolum, in maculis cinereo-albicantibus gregarium, sub epidermide nidulans; peritheciis e globoso-lenticularibus, umbonatis, glabris, contextu densiuscule parenchymatico celluloso, ostiolo impresso pertuso, 180–190 μ. diam. atris; sporulis oblongo-ellipsoideis, 3-4-septatis, muriformibus ad septa non vel vix constrictis, flavidis, basidiis papilliformibus suffultis, paraphysibus hyalinis crassis, septulatis guttulatis, obvolutis, 18–22 ≃ 10.

Hab. in foliis Vitis viniferæ, sociâ *Pleosporâ herbarum,* Conegliano in Italia boreali.

36. **Camarosporium oreades** (Dur. et Mont.) Sacc. *Hendersonia oreades* 2526
Dur. et Mont. Fl. Alg. p. 571. *Sphæria oreades* Fr. in Duby Bot. Gall. II. p. 696. *Dichomera oreades* Cooke Præc. Hend. p. 24. — Peritheciis minimis globosis, astomis, nigris, intus albis, in macula orbiculari amphigena, exarida, elevata, applanata, griseo-lutescente aggregatis aut annulatim dispositis; sporulis basidiis brevibus fultis, majusculis ovoideis oblongisve transverse (et longitudinaliter) bi-triseptatis.

Hab. in foliis semiemortuis v. languescentibus Quercus coccifera, Q. pubescentis etc. in Gallia, Belgio, Britannia.

37. **Camarosporium variabile** (B. et C.) Sacc. *Hendersonia variabilis* 2527
B. et C. North Amer. Fungi n. 426. — Maculis orbicularibus pallidis; peritheciis punctiformibus epidermide tectis; sporulis utrinque obtusis triseptatis variis, 30-60 μ. longis, septo longitudinali hinc v. inde divisis.

Hab. in foliis Quercus obtusilobæ in Carolina inferiore — «An diversum a *Camar. oreade?*»

38. **Camarosporium pithyum** Sacc. Rouss. et Bomm. Misc. Myc. F. Belg. n. 12. — Peritheciis subsparsis, globoso-lenticularibus, epidermide initio velatis, $^1/_2$ mill. diam., poro pertusis; sporulis oblongo-ellipsoideis, 3-septatis parceque muriformibus, ad septa non constrictis, 18-20 ≃ 8-10, fuligineis, basidiis brevissimis hyalinis suffultis. 2528

Hab. in foliis Araucariæ imbricatæ, sæpius epiphylla, pr. Bruxelles Belgii. — A *C. suseganensi* differt peritheciis paullo majoribus et defectu maculæ matricalis.

III. *In caulibus foliisque Dicotyledonearum herbacearum.*

39. **Camarosporium Compositarum** (C. et Harkn.) Sacc. *Dichomera Compositarum* C. et Harkn. Grev. 1880, p. 7. — Sparsum, erumpens, atrum, opacum, obtusis; sporulis ovatis 2-3-septatis, muriformibus atro-fuscis, demum opacis, 20 ≃ 14. 2529

Hab. in caulibus Artemisiæ et Achilleæ in California.

40. **Camarosporium æquivocum** (Pass.) Sacc. *Dichomera æquivoca* Passer. Erb. Critt. Ital. Ser. II. n. 1391. — Peritheciis discretis, superficialibus, celluloso-contextis; sporulis parvulis fuscis subglobosis, ut plurimum 7-8 μ. diam., uni- vel biseptatis vel sæpius radiatim septatis, aut etiam ellipticis, triseptato-muriformibus, et tunc 10 ≃ 5. 2530

Hab. in caulibus siccis Artemisæ camphoratæ, Vigheffio prope Parma Italiæ (Passerini).

41. **Camarosporium Lycii** Sacc. Syll. II. p. 241. *Hendersonia*..... Hazsl. Sph. Lyc. p. 449, t. XV. f. 19-21. — Peritheciis hinc inde confertis, erumpentibus, globoso-papillatis, pilis molliusculis vestitis, ostiolo longiusculo pertuso; sporulis ellipsoideis, utrinque rotundatis, 3-septato-muriformibus, ad septa haud constrictis, fuligineis; basidiis bacillaribus sporulà paullo longioribus. 2531

Hab. in ramulis Lycii barbari in Hungaria. — Pycnidium *Karstenulæ variantis* (Hazsl.) Sacc.

42. **Camarosporium quaternatum** (Hazsl.) Sacc. Syll. II. p. 329. *Clinterium Lycii* Hazsl. Sph. Lyc. p. 451, t. XIV. fig. 9-12. — Peritheciis globoso-conicis pertusis, hirtellis; sporulis elliptico-cuboideis, sæpe cruciatim divisis varieve muriformibus, fuscis; basidiis bacillari-clavatis, articulatis, hyalinis. 2532

Hab. in ramulis Lycii barbari in Hungaria, socio st. ascophoro *Fenestella Lycii.*

43. **Camarosporium Hazslinszkyi** Sacc. *Stilbosporæ* sp. Hazsl. Sph. Lyc. p. 449, t. XV. f. 13–18. — Peritheciis hinc inde subaggregatis v. subsparsis, globoso-depressis, erumpentibus, apice albido latiuscule pertusis, setulis rigidulis ubique vestitis; sporulis tereti-fusoideis acutiusculis, 3-septato-muriformibus, ad septa denique constrictis, fuligineis; basidiis bacillaribus, sporulam subæquantibus, articulatis, hyalinis. 2533

Hab. in ramulis Lycii barbari in Hungaria.

44. **Camarosporium Galiorum** (C. et Hark.) Sacc. *Hendersonia Galiorum* C. et Hark. Califor. Fungi in Grev. 1880, p. 7. — Sparsum, atrum, prominulum, demum erumpens; sporulis subellipticis, utrinque attenuatis, fuscis, triseptatis, cellulâ pænultimâ longitudinaliter divisâ, 20 ≃ 8. 2534

Hab. in caulibus Galiorum in California.

45. **Camarosporium suseganense** Sacc. et Sp. in Mich. I. p. 209. (sub *Hendersonia*). — Foliicolum; maculis albis, sinuosis; peritheciis globoso-lenticularibus, amphigenis, 100–150 μ. diam., pertusis; contextu parenchymatico, atro-fusco; sporulis ovoideis, inæqualibus, 15–20 ≃ 8–10, 2–4-septatis muriformibusque, fuligineis. 2535

Hab. in foliis Capparidis rupestris, Susegana in Italia boreali (Spegazzini).

46. **Camarosporium Phaceliæ** (C. et Hark.) Sacc. *Dichomera Phaceliæ* C. et Harkn. in Grevillea 1880, p. 7. — Sparsum, atrum, erumpens, opacum, obtusum; sporulis subglobosis vel breviter ellipticis, atro fuscis, transverse et longitudinaliter 1–2-septatis, 12 ≃ 9. 2536

Hab. in caulibus Phaceliæ in California. — Sporulæ interdum ita opacæ ut septa conspici nequeant.

47. **Camarosporium Penzigi** Sacc. Mich. II. p. 143. — Peritheciis gregariis, subcutaneis, prominulis, e globoso obtuse conoideis, $^1/_8$–$^1/_6$ mill. diam.; sporulis ovoideis v. suboblongis, inæqualibus, 14–16 ≃ 8–10, inæqualiter-2–3-septato-muriformibus, ad septa vix constrictis, fuligineis. 2537

Hab. in scapis Statices Schrenkianæ F. et. M. ex Sangoria (Herb. Patav.). — *Camarosp. suseganensi* S. et S. affine.

48. **Camarosporium Camphorosmæ** (Cast.) Sacc. *Sphæria Camphorosmæ* Cast. Mars. p. 172. *Hendersonia Camphorosmæ* Mont. in Cast. Cat. Mars. p. 46, et Syll. n. 938. — Peritheciis tectis, prominulis, ovoideo-depressis, sparsis atris poroque pertusis; sporulis 2538

oblongo-obovatis brevibus fuscis, transversim longitrorsumque septis subternis divisis.

Hab. in caule Camphorosmæ Monspeliacæ in Gallia australi (Castagne).

49. **Camarosporium Roumeguerii** Sacc. Mich. II. p. 112. — Perithe- 2539
ciis sparsis, globuloso-depressis, papillulatis, epidermide velatis, 1/10 mill. diam., ochraceo-celluloso-contextis; sporulis ovoideo-subangulosis valde inæqualibus, 18-20 ≃ 8, 3-4-septato-muriformibus, melleis.

Hab. in ramulis subvivis Salicorniæ herbaceæ, La Nouvelle in Gallia (Roumeguère), Salicorniæ peruvianæ en la Isla de los Leones in Patagonia (Spegazzini). — *β.* **Kochiæ** Sacc. Mich. II. p. 351 : sporulis 12–15 ≃ 8–10, varie 2-4-clathrato-septatis, fuligineis, basidiis filiformibus simplicibus ramulosisve 20-25 long. suffultis. In caulibus Kochiæ in Gallia australi.

50. **Camarosporium patagonicum** Sp. F. Argent. Pug. III. n. 126. — 2540
Peritheciis sparsis, minutis, 90–110 μ. d., lenticularibus, primo tectis dein erumpentibus, atris, membranaceis, contextu olivaceo, basi hyphis radicantibus exilibus ornatis; sporulis versiformibus ellipticis v. subglobosis, 3-7 horizontaliter, 5-6 verticaliter septatis, ad septum medium non v. constrictis, 20-35 ≃ 12-18, fuligineis.

Hab. ad folia viva v. languida Atriplicis nov. sp. en la Isla de los Leones in Patagonia (C. Berg).

IV. *In Monocotyledoneis, Acotyledoneis chartaque.*

51. **Camarosporium minutulum** (Dur. et Lév.) Sacc. *Hendersonia mi-* 2541
nutula Dur. et Lév. in Flor. d'Alger. pag. 571. — Peritheciis innatis sparsis, 300 μ. diam., globosis, minutis nigris tomento candido obtectis, ostiolis erumpentibus halone pallida cinctis; sporulis ovoideo-oblongis 3-4 transversim 2-longitrorsum septatis, fuscis, 16 ≃ 7,5.

Hab. in foliis vaginisque Arundinis giganteæ in consortio *Fusarii abnormis* circa Alger in Africa (Durieu).

52. **Camarosporium Stephensii** (B. et Br.) Sacc. *Hendersonia Ste-* 2542
phensii B. et Br. in Ann. N. H. n. 502. — Peritheciis irregularibus, oblongis, membranaceis, lineatim dispositis et epidermide brunnea dein longitudinaliter fissa tectis; sporulis latis, ovatis, 3-septatis crebreque reticulato-muriformibus.

Hab. in stipitibus Pteridis aquilinæ, Bristol in Anglia.

53. **Camarosporium charticolum** (Speg.) Sacc. *Hendersonia charti-* 2543

cola Speg. in Sacc. Mich. I. p. 483. — Peritheciis innatis, lenticularibus vel subglobosis, primo tectis dein erumpentibus, 120-150, contextu membranaceo-parenchymatico denso, fuligineo, subopaco; sporulis oblongo-ellipticis, quandoque clavulatis, 4-septatis, ad septa leniter constrictis, septo longitudinali quandoque donatis, 40 ≃ 15-16, primo fumose hyalinis, dein subfuscescentibus.

Hab. ad chartam stercoratam putrescentem in locis umbrosis, Conegliano in Ital. bor.

CYTOSPORIUM Peck Bot. Gazett. Jun. 1879, p. 171 (sub nomine hybrido *Cellulosporium*) (Etym. *cytos* cavitas, cellula, et *spora*). — Perithecia superficialia v. basi insculpta, epixyla, globulosa, subcarbonacea, atra, papillata v. subastoma vageque dehiscentia. Sporulæ ovoideæ v. oblongæ, 2-pluri-septato-muriformes, fuligineæ. — Est mihi hoc genus tamquam *Camarosporium* subsuperficiale, xylogenum.

1. **Cytosporium sphærosporum** Peck Bot. Gaz. Jun. 1879, p. 171. 2544
— Peritheciis superficialibus, subglobosis, 250-450 μ. diam., fragilibus, nigris; sporulis subglobosis vel late ellipticis, coloratis, cellulosis, 20-30 μ. longis.

Hab. in ligno corrupto, Illinois Americæ borealis. — Habitus fere *Melanommatis* cujusdam.

2. **Cytosporium basitrichum** Sacc. in Mich. I. p. 516 sub *Hendersonia*. — Peritheciis subsuperficialibus, gregariis e globoso depressis, 2545
$^1/_3$-$^1/_2$ mill. diam., strigoso-vestitis, vix papillatis, nigris; pilis septulatis olivaceis; sporulis ovato-oblongis, 3-septato-muriformibus, 18 ≃ 8-9, non constrictis, initio flavis dein fuligineo-olivaceis, basidiis subnullis suffultis.

Hab. in ligno putri Evonymi, Rouen in Gallia (Letendre). — Affine *Camarosp. incrustanti* Sacc. sed perithecia vestita nec glabra.

ENDOBOTRYA Berk. et Curt. North Am. Fung. n. 457 (Etym. *endon* intus, et *botrys* racemus). — Perithecia cortice abdita. Sporulæ clavatæ, pedunculatæ; episporium reticulatum; endosporium e cellulis globosis nucleatis transversim subseriatis.

1. **Endobotrya elegans** Berk. et Curt. North Amer. Fungi n. 457. 2546
— Peritheciis cortice nidulantibus; sporulis clavatis, stipitatis, 50 μ. longis, in globulum nigrum erumpentibus; episporio hyalino,

initio continuo dein reticulato; endosporio ex articulis globosis, nucleatis, transverse seriatis, denique secedentibus, fuscis.

Hab. in ramis fagineis, Maine Americæ borealis. — «Cum *Thyrsidio* nonnullis notis convenire mihi videtur».

DICHOMERA Cooke Præc. Hend. pag. 24 p. p. Sacc. Mich. II. pag. 8 (Etym. *dichos* dupliciter, et *meros* pars, articulus) *Staurosphæria* Rabenh. et Kickx p. p. *Hercospora* Preuss, nec alior. — Perithecia stromate dothideaceo, pulvinato, erumpente subimmersa, globulosa, papillulata. Sporulæ globulosæ v. ellipsoideæ, 2-4-septato-murales v. sæpius radiatim v. cruciatim 3-6-septatæ, fuligineæ, stipitellatæ. — Species plurimæ potius unius speciei varietates.

1. **Dichomera Saubinetii** (Mont.) Cooke Præc. Henders. p. 24, *Hendersonia Saubinetii* Mont. Syll. p. 263, et Cent. VI. n. 93, l. c. — Dothideoides, erumpens, elliptico-subrotunda, planiuscula, atra opaca; peritheciis stromate fusco-nigrescente immersis polystichis, superficialibus albo-farctis, alte demersis, brunneis; sporulis subglobosis 8-10 μ. diam. vel 11-12 ≃ 8-9, 2-septato-muriformibus v. sæpius radiatim 3-5-septatis, ad septa leniter constrictis, fuligineis, initio basidiis cylindraceis sporulà brevioribus, hyalinis fultis. 2547

Hab. in ramis Rhamni, Sambuci, Quercus in Gallia, Italia bor., Britannia.

2. **Dichomera Rhamni** (West.) Sacc. *Staurosphæria Rhamni* West. Bul. ac. roy. belg. II. ser. t. VII. n. 5 cum ic. — Peritheciis aggregatis, nigris, membranaceis, immersis, dein superficialibus epidermide rupta cinctis eamque pustulatim elevantibus; ostiolo papilliformi; sporulis numerosis, rotundatis vel irregularibus brunneis, 2-3-4-locularibus, septis ad centrum convergentibus, sporulam stellatam sistentibus. 2548

Hab. in ramulis Rhamni Frangulæ in Belgio (Tosquinet).

3. **Dichomera salicina** (Vize) Sacc. *Hendersonia salicina* Vize in Grevill. t. 97, fig. 17. — Gregaria, erumpens; peritheciis nigris, applanatis, confluentibus v. dothideoideis; sporulis ellipticis, triseptatis, plerumque longitudinaliter divisis, brunneis, 15-22 ≃ 8-10. 2549

Hab. in ramis vetustis salicinis, Forden Britanniæ.

4. **Dichomera mutabilis** (Berk. et Br.) Sacc. *Hendersonia mutabilis* C. et Br. Ann. N. H. n. 414. — Pustulis depressis, ellipticis, nigris intus pluricellularibus, subcutaneis et vix erumpentibus; sporulis oblongo-ellipticis, 3-4-septatis et muriformibus. 2550

Hab. in ramulis emortuis Platani et Coryli in Anglia et Germania.

5. **Dichomera sphærosperma** (B. et C.) Sacc. *Hendersonia sphærosperma* B. et C. North Amer. Fungi n. 424 bis. — Pustulis epidermide cinctis, pluricellulosis; sporulis sphæricis, longe pedicellatis, septis obliquis horizontalibusque divisis, brunneis. 2551

Hab. in ramis Fraxini in Pensylvania Americæ bor.

6. **Dichomera Tiliæ** (Therry) Sacc. *Staurosphæria Tiliæ* Therry Rev. myc. V. p. 30. — Stromatibus epidermide tectis dein eâ ruptâ cinctis, pustuliformibus, numerosis, aggregatis, 3-7-locularibus, loculis ostiolo papilliformi donatis; sporulis numerosis, initio sphæricis, granulosis, hyalinis dein brunneis 1-3-septatis, ovalibus vel ovoideis cruciato-septatis. 2552

Hab. in ramulis Tiliæ in Gallia (Therry).

7. **Dichomera stromatica** (Preuss) Sacc. *Hercospora stromatica* Preuss Fungi Hoyersw. n. 20. — Stromate atro, cortici insidente; peritheciis plurimis, sphæricis, atris inclusis; basidiis (e floccis strati suffultorii ortis) albis; sporulis oblongis, transverse et longitudinaliter septatis, cellulosis, fuscis. 2553

Hab. in cortice arborum frondosarum, Hoyerswerda. — Sporulæ dein in globulum erumpentes dicuntur.

REPERTORIUM

SPHÆRIOIDEARUM DICTYOSPORARUM

SECUNDUM MATRICES

Obs. C. indicat *Camarosporium*. — Cy. *Cytosporium*. — E. *Endobotrya*. — D. *Dichomera*.

Numeri 2491 — 2553 citantur 491 — 553

Abies — C. 520.
Achillea — C. 529.
Ailanthus — C. 513.
Alnus — C. 514.
Araucaria — C. 528.
Artemisia — C. 529. 530.
Arundo — C. 541.
Atriplex — C. 540.

Camphorosma — C. 538.
Capparis — C. 535.
Celastrus — C. 498.
Cereus — C. 509.
Colutea — C. 494. 496.
Cornus — C. 511.
Coronilla — C. 494.
Corylus — D. 550.
Cydonia — C. 505.
Cytisus — C. 496.

Evonymus — Cy. 545.

Fagus — E. 546.
Fraxinus — D. 551.

Galium — C. 534.
Gleditschia — C. 493.

Hedera — C. 507.

Kochia — C. 539.

Laurus — C. 494.
Lonicera — C. 499. 500.
Lycium — C. 531. 532. 533.

Morus — C. 516.

Phacelia — C. 536.
Philadelphus — C. 501.
Pinus — C. 519.
Platanus — D. 550.
Prunus — C. 504.
Pteris — C. 542.

Quercus — C. 515. 526. 527. — D. 547.

Rhus — C. 511. 512.
Robinia — C. 491. 492.
Rosa — C. 502.
Rubus — C. 503.
Ruta — C. 499.

Salicornia — C. 539.
Salix — C. 517. 518. — D. 549.
Sambucus — D. 547.
Sarothamnus — C. 497.
Statice — C. 537.

Tilia — C. 506. — D. 552.

Viburnum — C. 523. 524.
Viscum — C. 510.
Vitis — C. 508. 525.

Sect. 7. Scolecosporæ Sacc.

Sporulæ bacillares, filiformes vel elongato-fusoideæ, continuæ vel septatæ, hyalinæ vel chlorinæ.

Clavis analytica generum.

I. Perithecia membranacea vel subcarbonacea.

A) Simplices, non stromaticæ.

§ Perithecia erostria.

Septoria. Perithecia exigua, lenticularia, completa, pertusa non papillata, sæpissime maculicola et foliicola; sporulæ sæpius angustissimæ.

Phleospora. Perithecia globoso-lenticularia sed spuria vel incompleta, foliicola, vix maculicola; sporulæ crassiusculæ.

Rhabdospora. Perithecia globulosa vel depressa, completa, sæpius papillata, rami-caulicola, non vel vix maculicola.

Phlyctæna. Perithecia globoso-oblonga, depressa, majuscula, sed superne incompleta et subhysterioideo-dehiscentia, rami-caulicola.

Gelatinosporium. Perithecia globulosa, in sicco rugosa, atra, erumpentia, vertice late hiantia et massam sporaceam gelatinosam ostendentia.

§§ Perithecia rostrata.

Sphærographium. Sporulæ fusoideo-filiformes, continuæ, hyalinæ.

Cornularia. Sporulæ fusoideo-filiformes, septatæ, hyalinæ vel chlorinæ.

B) Stromaticæ.

Eriospora. Sporulæ in basidio communi 4-6-fasciculato-acrogenæ. Graminicola.

Dilophospora. Sporulæ discretæ, utrinque setuloso-penicillatæ. Graminicola.

Cytosporina. Sporulæ discretæ, muticæ. Est *Cytospora* scolecospora.

II. Perithecia subsuberosa, spuria, sæpe furfuracea.

Micula. Perithecia discreta, gregaria, globoso-conica, erumpentia.

Microperа. Perithecia dense aggregata, subinæqualia, subelongata, erumpentia.

SEPTORIA Fr. S. M. III. p. 480, emend. Sacc. Mich. II. p. 6. (Etym. a *septo,* quia sporulæ typice septatæ). *Helicobolus* Wallr. p. p., *Filospora* Preuss p. p., *Spilosphæria* Rabenh., *Ascospora* Mont., *Rhabdospora* Dur. et Mont. p. p. — Perithecia subcuticularia, in areis decoloratis foliorum typice nascentia, globoso-lenticularia, poro pertusa, laxiuscule membranacea. Sporulæ bacillares vel filiformes, pluriseptatæ vel pluriguttulatæ, rarius eguttulatæ, hyalinæ. Basidia nulla vel exigua. — Est quasi *Phyllosticta* vel *Ascochyta* scolecospora.

I. *In Dicotyledoneis.*

A) *Foliicolæ.*

§ *In plantis lignosis.*

1. **Septoria Magnoliæ** Cooke F. Texas p. 142. — Epiphylla; peritheciis atris, subimmersis, in maculis irregularibus brunneis congestis; sporulis linearibus, nucleatis 25–30 μ. longis. 2554

Hab. in foliis Magnoliæ grandifloræ, Houston Texas in America bor.

2. **Septoria niphostoma** B. et C. North Amer. Fungi n. 447 bis. — Peritheciis sparsis nitidis nigris, centro candidis; sporulis rectis utrinque obtusiusculis, 25 μ. longis. 2555

Hab. in foliis coriaceis Magnoliæ grandifloræ in Carolina inferiore, Gainesville, Florida.

3. **Septoria Berberidis** Niessl, in Sacc. Mich. I. p. 177 M. V. n. 1015. — Maculis arescendo fuscidulis, zona atropurpurea cinctis, subcircularibus, epiphyllis; peritheciis aggregatis e globoso lenticularibus, poro pertusis; sporulis filiformi-clavatis, hinc acutis, illinc obtusis, 45 ≃ 2½, pluri-guttulatis, hyalinis. 2556

Hab. in foliis Berberidis vulgaris, Conegliano in Italia boreali (Spegazzini) et in Moravia (Niessl).

4. **Septoria Mahoniæ** Passer. F. Parm. Sept. n. 7. — Maculis minimis, epipyllis, discoideis, centro exaridis, fusco-marginatis, perithecium singulum, punctiforme, atrum foventibus; sporulis fusiformibus, plus minusve arcuatis, integris, achrois, endoplasmate opaco, 20 ≃ 2,7. 2557

Hab. in foliis languentibus Mahoniæ Aquifolii, socia *Phyllosticta Mahoniæ*, Sacc. et Sp., Parma Italiæ bor.

5. **Septoria Corynocarpi** Thüm. Contr. Myc. Lusit. n. 390. — Peritheciis epiphyllis, magnis, lenticularibus, emersis, gregariis, fusco-nigrescentibus in macula elliptico-orbiculata, arescendo albida, fuscescenti-cincta, subtus albofusca; sporulis rectis vel interdum leniter curvatis, cylindricis, obsolete bi-triseptatis vel plerumque triguttulatis, utrinque rotundato-obtusis, hyalinis, 15 ≃ 5. 2558

Hab. in foliis vivis languidisve Corynocarpi levigatæ in horto bot. Coimbra Lusitaniæ (Moller).

6. **Septoria Anodæ** Speg. F. Arg. Pug. IV. n. 283. — Maculis magnitudine ludentibus 1–3 mill. diam., orbicularibus v. irregulariter et obtuse angulosis, sæpe confluentibus, candidis, determinatis, areola latiuscula violaceo-purpurascenti-cinctis; peritheciis epiphyllis, cen- 2559

tralibus minutissimis lenticularibus, 70–80 μ. diam. atris, membranaceis, contextu densiuscule parenchymatico, olivaceo-fuligineo; sporulis filiformibus, 30–50 ≃ 1–1,5, 1–4-septulatis, hyalinis.

Hab. in foliis languidis Anodæ speciei cujusdam in hortis, Boca del Riachuelo Argentinæ.

7. **Septoria Hibisci** Sacc. Mich. I. p. 173. — Maculis arescendo de- 2560
albatis, fusco-cinctis, subcircularibus irregularibusque; peritheciis punctiformibus, lenticularibus 50–60 μ. diam., poro latiusculo pertusis; sporulis bacillaribus leniter curvatis, 15–20 ≃ 2–2¼, continuis, hyalinis.

Hab. in pagina sup. foliorum Hibisci syriaci, Vittorio in Italia boreali, raro.

8. **Septoria simillima** Thüm. Contr. Funghi Litor. n. 347. — Peri- 2561
theciis hypophyllis, gregariis, conicis, vix emersis, mediis, nigris, sine macula distincta, sed in folii parte emortua, decolorata, sordide fusca, arida; sporulis bacillari-filiformibus, leniter curvis, continuis, utrinque obtusiusculis, hyalinis, 12–16 ≃ 2–2,5.

Hab. ad folia languida Hibisci rosæ-sinensis, in territorio Gorizia. — *Septoria Hibisci* Sacc. forma et magnitudine sporularum eximie quadrat, sed maculis deficientibus valde differt!

9. **Septoria Tiliæ** Westend. Exs. n. 956. Kickx Fl. Fland. I. p. 430. 2562
Pass. Sept. Parm. n. 14. — Peritheciis amphigenis in macula fusca dein centro expallente, sparsis vel circinatis; sporulis bacillaribus rectis vel leniter curvis, 3–4-septatis, ut plurimum 35–40 ≃ 2–2½, interdum multo longioribus.

Hab. in foliis vivis languidisve Tiliæ europææ in Italia, Austria et Belgio. — *Septoria Tiliæ* Auersw. verisimiliter eadem species est.

10. **Septoria ochraceo-maculans** Thüm. Contr. Myc. Lusit. n. 388. — 2563
Peritheciis sparsis, hypophyllis vel amphigenis, sæpe solitariis, globosis, submagnis, atris in macula valde irregulari, ochraceo-arescente, anguste sed distincte fusco-purpureo-cincta; sporulis oblongo-cylindraceis, rectis vel leniter arcuatis, hyalinis, medio uniseptatis constrictisve, quadriguttulatis, guttulis magnis, 12 ≃ 4.

Hab. ad folia viva Brachychitonis populnei, Coimbra Lusitaniæ in horto botanico (Moller).

11. **Septoria cinerescens** (Dur. et Mont.) Sacc. *Rhabdospora cine-* 2564
rescens Dur. et Mont. Fl. Alg. I. p. 592, Mont. Syll. crypt. p. 278. — Hypophylla; peritheciis congregatis depressis innatis, 100–150 μ. diam., epidermide nigrefacta initio tectis, eàdem demum stella-

tim ruptâ cinctis, apice poro pertusis; sporulis cylindraceo-clavulatis vel utrinque attenuatis 3-4-septatis, 50 ≃ 6-7, rectis v. leniter flexuosis.

Hab. in foliis dejectis Citri Aurantii, Bouzaréah Algeriæ.

12. **Septoria Arethusa** Penz. in Sacc. Mich. II. p. 434. — Maculis albis vel ochraceis, versiformibus; peritheciis minutis, 70-100 μ. d., demum erumpentibus, depressis, atro-brunneis; sporulis elongato-fusiformibus, leniter curvulis, utrinque acutatis, continuis vel 1-3-septatis, ad septa haud constrictis, 16-25 ≃ 2-3,5. 2565

Hab. in maculis aridis foliorum vivorum Citri in frigidariis, Padova, Cattajo Ital. bor. — A *Sept. Limonum* sporulis duplo longioribus imprimis diversa.

13. **Septoria Citri** Pass. Flora 1877, n. 13 et in Thüm., Mycoth. univ. n. 495. Mich. II. p. 173 et 435. — Peritheciis minutis 50-80 μ. diam. fuscis, tectis, nunc maculiformiter aggregatis vel etiam late sparsis; sporulis pro ratione generis brevibus, subfusiformibus, continuis vel sæpe medio septatis, rectis, hyalinis, 14-18 ≃ 2-3. 2566

Hab. in foliis languidis aridisque Citrorum in Italia, Hispania, Lusitania, Gallia, Istria. — β. **minor** Penz. in Mich. l. c.: sporulis fusiformibus frequentius medio septatis, hyalinis, 10-14 ≃ 2,5-3. Cum typo.

14. **Septoria Limonum** Pass. Funghi Parmensi enumerati, in Atti Soc. Crittog. Ital. II. p. 23, Sacc. Mich. II. p. 437. *Septoria Hesperidearum* Catt. Mic. Agrum. p. 11. — Peritheciis punctiformibus, nigris depressis, 80-90 μ. diam., in maculis discoideis aggregatis; sporulis cylindricis, rectis, tenuibus, 8-15 ≃ 1,5-2, continuis. 2567

Hab. in foliis fructibusque immaturis Citrorum, Parma (Passerini), Pavia (Cattaneo), Bologna (Gibelli), Padova (Penzig).

15. **Septoria Cattanei** Thüm. Fungor. novor. exoticorum Decas altera n. 14, Sacc. Mich. II. p. 435. — Peritheciis amphigenis, dense gregariis, conicis, atris, primo epidermide tectis, parvulis in macula amphigena, sæpe marginali, arescendo ochracea, fusco anguste cincta; sporulis cylindraceis, rectis vel subarcuatis, utrinque obtusatis, enucleolatis, uniseptatis, achrois, 9-12 ≃ 2-3. 2568

Hab. in foliis vivis Citri medicæ spontaneæ, Canara, Ind. orient. (Doct. Keck).

16. **Septoria Tibia** Penz. in Sacc. Mich. II. p. 439. — Maculis fuscis vel brunneis; peritheciis dense aggregatis, concentrice dispositis, minutis, 100-120 μ. diam., epidermide tectis, demum erumpentibus, globoso-conicis; sporulis brevibus, 10-14 ≃ 3-3,4, fusiformi- 2569

bus, rectis, sæpius inæquilateralibus, utrinque obtusiusculis, pluriguttulatis, continuis vel (rarius) uniseptatis.

Hab. in foliis vivis Citri Limonum var. Limetta, in frigidariis, Strà prope Patavium in Ital. bor. (O. Penzig). — β. **Limoniæ** Penz. l. c. maculis arescendo dealbatis; cetera speciei. In foliis semiemortuis Limoniæ australis cultæ in agro veneto.

17. **Septoria sicula** Penz. in Sacc. Mich. II. p. 438. — Maculis obsoletis vel nullis; peritheciis laxe gregariis, epiphyllis, maiusculis, demum erumpentibus, depressis, brunneolis, circa ostiolum nigrescentibus; sporulis bacillaribus, rectis, utrinque rotundatis, continuis vel 1-2-septatis, hyalinis, 30-42 ≃ 3,5-4, basidiis hyalinis, rectis, continuis, 8-10 ≃ 3-3,5. 2570

Hab. in foliis languidis vel delapsis Citri Limonum, Carini Siciliæ (V. Beltrani).

18. **Septoria Salliæ** W. R. Ger. Torr. Bot. Cl. Jun. 1874. — Maculis majusculis, subcircularibus, pallidis, linea rubro-brunnea cinctis; peritheciis minutis, sparsis, nigricantibus; sporulis bacillaribus, hyalinis, curvulis, 18 ≃ 2½, continuis. 2571

Hab. in foliis Aceris saccharini in Amer. boreali.

19. **Septoria Pseudoplatani** Rob. et Desm. 14 Not. 6, p. 21. — Maculis amphigenis, minutissimis, sparsis, suborbiculatis, rufis v. subochraceis in ambitu luteolis; peritheciis epiphyllis, paucis, conglomeratis, brunneis, latiuscule apertis convexis, dein collabascendo concavis; cirris albidis; sporulis bacillaribus, curvulis, 3-septatis, hyalinis, 45-55 ≃ 3. 2572

Hab. in foliis subvivis Aceris Pseudoplatani in Gallia et Germania.

20. **Septoria seminalis** Sacc. Mich. II. p. 167. — Maculis marginalibus oblongis, subochraceis; peritheciis gregariis, epiphyllis, lenticularibus, tectis, 90 μ. diam. pertusis, contextu tenui-parenchymatico, ochraceo; sporulis bacillari-fusoideis, falcatis 20-25 ≃ 1½-2, utrinque acutis, guttulatis, hyalinis. 2573

Hab. in folio seminali (cotyledone) languido Aceris campestris in horto patavino Ital. bor. (Bizzozero). — A *Sept. Aceris*, *Sept. Pseudoplatani*, *Glœosporio acerino* et *truncatulo* certe diversa.

21. **Septoria acerina** Peck 25 Rep. p. 87. — Maculis brunneis vel luteis centro brunneis, plerumque angulosis; peritheciis magnitudine et forma variis, collabentibus; sporulis filiformibus, curvatis, continuis vel indistincte septulatis, 32-40 μ. longis. 2574

Hab. in foliis Aceris striati, Keene Amer. bor.

22. **Septoria acerella** Sacc. Mich. II. p. 102 (*Sept. acerina*). — Maculis epiphyllis, angulosis, minutissimis, candidis; peritheciis parcis, lenticularibus, exiguis; sporulis bacillaribus, curvis 20-22 ≃ 2, subcontinuis, hyalinis. 2575

Hab. in foliis emortuis v. languidis Aceris campestris, Saintes Galliæ (Brunaud). — Ab aliis speciebus acericolis diversa.

23. **Septoria incondita** Desm. in Ann. Sc. natur. 1853, XX. p. 95 (forma *acericola*). — Maculis amphigenis, irregularibus, rufis aut brunneo-terreis, non limitatis, dein confluentibus; peritheciis hypophyllis, minutissimis, numerosis, rufo-olivaceis, dein intense brunneis, innato-prominulis, poro apertis, dein planiusculis; cirris albidis aut dilute corneis; sporulis elongatis tenuissimis rectis vel curvatis, sæpe obtusis, 4-nucleatis, 30-40 ≃ 3. 2576

Hab. in foliis annuis rigidioribus Acerum Pseudoplatani et Platanoidis in Gallia; in foliis Aceris campestris, Gradisca in Litor. Austr.

24. **Septoria æsculina** Thüm. Symb. Myc. Austr. III. n. 64. — Peritheciis plerumque amphigenis, pro ratione magnis, solitariis, parcissimis, punctiformi-globulosis, atris, in macula parva arescendo candida perforataque, inferius dilute ochracea anguste atro-purpureo-cincta; sporulis numerosis arcuatis utrinque obtusis, ut videtur semper continuis, achrois, 36-44 ≃ 3,5-5. 2577

Hab. in foliis vivis Æsculi Hippocastani, Kalksburg in Austria inf. — A *Septoria Hippocastani* et *Septoria Æsculi* valde diversa dicitur.

25. **Septoria Hippocastani** Berk. et Br. Ann. N. H. n. 434. — Maculis rufis; peritheciis punctiformibus; sporulis filiformibus curvis vel flexuosis, 55-60 ≃ 2½ continuis hyalinis; cirris minutis. 2578

Hab. in foliis Æsculi Hippocastani, Parma Italiæ et in Britannia.

26. **Septoria Æsculi** (Lib.) West. Bull. Acad. Brux. 1851, p. 394. Kickx Fl. I. p. 431. *Ascochyta Æsculi* Libert. Exs. p. 154. — Maculis variis, arescendo rufescentibus; peritheciis lentiformibus, pertusis; sporulis bacillari-fusoideis, curvulis, 50-60 ≃ 3-3½ utrinque obtusiusculis, 3-4-septatis, hyalinis. 2579

Hab. in foliis Æsculi in toto agro veneto et parmensi in Austria, Belgio, Gallia. — Sec. Passerini sporulæ tantum 32 ≃ 3-3,5.

27. **Septoria ampelina** B. et C. North Americ. Fungi n. 440. — Ma- 2580

culis rufulis, aliis brunneis stellatis intermixtis; sporulis linearibus curvatis, 30–50 μ. longis.

Hab. in foliis Vitis, Texas; in foliis Vitis vulpinæ, Aiken Carolinæ.

28. **Septoria Badhami** B. et Br. Ann. N. H. n. 748, t. XV. f. 9. — 2581
Peritheciis hinc inde maculiformiter sub-conglomeratis, brunneis amphigenis; sporulis clavatis, elongatis variis, crassiusculis, 50 μ. longis, minute granulosis, rarius 1–2-septatis, hyalinis.

Hab. in foliis Vitis in Britannia. — An species, quæ in Thüm. Pilz. d. Weinst. p. 180, sequenti modo describitur, eadem sit, valde dubito. — **Septoria Badhami** Berk. et Br. Outl. of fungology p. 320. *Exosporium Badhami* Awd. Thüm. Pilze des Weinstockes p. 180. — Peritheciis parvulis, hypophyllis, dense gregariis in maculis irregularibus, subfuscis, obsolete marginatis sparsis, in foliorum pagina superiore maculas magnas late effusas, non limitatas violaceo-fuscas formantibus, globulosis, prominulis, setis rigidis, paucis tectis, atris; sporulis paucis, stipitatis, clavulatis, vertice rotundatis, basi angustatis, bi-vel triseptatis, ad septa non constrictis, dilute fuscescentibus, 16–18 ≃ 6–8. — Ad folia subviva languidave Vitis viniferæ in Thuringia (Fleischhak). — «An hæc potius *Cercosporæ* species?»

29. **Septoria vineæ** Passer. F. Parm. Sept. n. 22. — Peritheciis epi- 2582
phyllis in maculis exaridis, folium totum tandem marginantibus, hinc illinc aggregatis, maculas fuscas parvulas efficientibus vel sparsis; sporulis filiformibus rectis vel vix curvis, continuis, intus granulosis, 12–18 ≃ 1,5, hyalinis.

Hab. in foliis languescentibus Vitis viniferæ, Gajone pr. Parma Italiæ.

30. **Septoria Melianthi** Sacc. Mich. II. p. 624. — Maculis subcircu- 2583
laribus, crebris, minutis, ochraceis, atrocinctis; peritheciis amphigenis, parcis, globulosis, obtuse papillatis, prominulis, 110–120 μ. diam.; sporulis bacillaribus, curvulis, utrinque acutiusculis, 40–50 ≃ 3, spurie 3-septatis, hyalinis.

Hab. in foliis languidis Melianthi culti, Mortagne sur Gironde Galliæ (Brunaud).

31. **Septoria Coriariæ** Passer. Fungh. Parm. n. 28. — Peritheciis 2584
hypophyllis in maculis livido-fuscis irregularibus sparsis; sporulis bacillaribus rectis vel vix curvulis, septulatis hyalinis, 30–35 ≃ 2,5.

Hab. in foliis Coriariæ myrtifoliæ, Berceto in agro parmensi Italiæ.

32. **Septoria Staphyleæ** Passer. Fung. Parm. Sept. n. 26. — Peritheciis in maculis rufis expansis arescentibus, hinc illinc aggregatis; sporulis tenuissimis integris, rectis vel arcuatis, hyalinis, 16–20 ≃ 1. 2585

Hab. in foliis languidis Staphyleæ pinnatæ, Parma Italiæ borealis.

33. **Septoria Rhamni** (Dur. et Mont.) Sacc. *Rhabdospora Rhamni* Dur. et Mont. Fl. Alg. I. p. 596, Mont. syll. crypt. pag. 279. — Amphigena; maculis albo-carneis, fusco-marginatis; peritheciis ovoideis 150 μ. diam., innato-prominulis tandem poro pertusis, epidermide rupta cinctis; sporulis bacillaribus curvulis, exilissimis, 40–50 ≃ 2. 2586

Hab. in foliis Rhamni Alaterni prope Medeah in Algeria (Monard).

34. **Septoria nitidula** Dur. et Mont. Fl. Alg. I. p. 593. *Rhabdospora nitidula* Dur. et Mont. Syll. crypt. p. 278. — Epiphylla; peritheciis sphæricis in folio decolorato gregariis vel confluentibus 100–250 μ. diam., linea fusco-atra cinctis, nitidis, poro pertusis; sporulis linearibus rectis obsolete 4–8-septatis, 20 ≃ 4, sporophoris quartam earum magnitudinis partem æquantibus. 2587

Hab. in foliis Rhamni Alaterni circa Bougie Algeriæ.

35. **Septoria rhamnella** Oud. Matériaux pour la Fl. mycolog. de la Néerlande II. p. 22. (*Sept. Rhamni*). — Maculis in foliis languescentibus flavescentibus rubro-variegatis subrotundis, nigrescentibus, area diu virescente circumdatis; peritheciis in pag. sup. folii in centro maculæ nunc solitariis, tunc binis vel ternis, exilissimis, parum emergentibus, poro apicali præditis; sporulis linearibus, parum curvatis, hyalinis, continuis, 10–20 ≃ 1,5, nonnumquam sub forma globuli albidi e poro perithecii egredientibus. 2588

Hab. in foliis Rhamni Frangulæ, Tourbières prope Achttienhovem Hollandiæ. — An diversa a *Sept. Frangulæ?*

36. **Septoria Frangulæ** Guep. in Sacc. Mich. II. p. 346. — Maculis epiphyllis, minutis, atro-rufis, circulo pallidiore cinctis; peritheciis paucis, lenticularibus; sporulis bacillaribus, longitudine variis, 18–25 ≃ 2, subcontinuis, hyalinis. 2589

Hab. in foliis languidis Rhamni Frangulæ in Gallia (Malbranche).

37. **Septoria rhamnigena** Sacc. Mich. I. p. 180. — Maculis nullis; peritheciis hypophyllis, hinc inde dense gregariis, punctiformibus, prominulis, nigris; contextu parenchymatico fuligineo; sporulis ba- 2590

cillaribus, 20-25 ≃ $1^1/_2$-2, utrinque rotundatis, curvulis, obsolete guttulatis, hyalinis.

Hab. in foliis Rhamni catharticæ, Conegliano in Italia bor. (Spegazzini). — A *Sept. Rhamni-catharticæ* Ces. longe diversa. — β. **Alaterni** Sacc. Mich. II. p. 101, a typo differt sporulis minoribus, nempe 15-16 ≃ $1^3/_4$-2, arcuatis nubilosis, hyalinis. In foliis Rhamni Alaterni, Toulouse Galliæ.

38. **Septoria cathartica** Passer. F. Parm. Sept. n. 29. — Maculis 2591
exaridis irregularibus griseis fusco-cinctis; peritheciis punctiformibus sparsis, utrinque perspicuis, subtus ostiolo fusco emersis; sporulis bacillaribus, rectis vel curvis, 10-20 ≃ 2,5.

Hab. in foliis Rhamni catharticæ in agro Parmensi.

39. **Septoria Rhamni-catharticæ** Ces. in Kl. Herb. Myc. n. 1956. Sacc. 2592
Mich. I. p. 172. — Maculis epiphyllis arescendo expallentibus, atro-marginatis; peritheciis punctiformibus, epiphyllis; sporulis cylindraceis, vehementer curvatis, 40-50 ≃ $1^1/_2$-2, 2-4-septatis, hyalinis.

Hab. in foliis languidis Rhamni catharticæ, Vercelli et Treviso Italiæ bor. — β. **Rhamni saxatilis** Sacc. Myc. Ven. n. 546: sporulis cylindraceo-clavulatis, 40-50 ≃ 3, pluriguttulatis hyalinis. In ejusdem foliis in agro Veneto.

40. **Septoria Saccardiana** Roum. F. Gall. n. 1886, Rev. Myc. IV. p. 2593
22. *Septoria Ascochytula* Sacc. Mich. II. p. 625. — Peritheciis hypophyllis, hinc inde dense maculiformi-aggregatis, globoso-lenticularibus, 70-80 μ. diam., pertusis, epidermide velatis; sporulis tereti-fusoideis, 20-25 ≃ 2-2,5, utrinque obtusiusculis, 1-septatis, haud constrictis, hyalinis.

Hab. in foliis languidis Rhamni Alaterni, Bone Algeriæ (Debeaux) et Nimes Galliæ (Roumeguère).

41. **Septoria? Evonymi-japonicæ** Passer. Fungh. Parm. Sept. n. 27. 2594
— Peritheciis amphigenis, sparsis tectis, pustulatim prominulis, vertice epidermidem radiatim vel denticulatim lacerantibus et marginulo albo coronatis; sporulis bacillaribus rectis, integris, hyalinis, 12-13 ≃ 2,5; basidiis non visis.

Hab. in foliis siccis Evonymi japonicæ, Parma Italiæ bor. — Ad *Phomam Ilicis* β. *Evonymi* accedit.

42. **Septoria Evonymi** Rabh. Flora 1848, p. 506. Sacc. Mich. I. p. 2595
172. — Maculis sæpius epiphyllis, arescendo pallentibus, latiusculis, vix marginatis; peritheciis punctiformi-lenticularibus, pertusis, parcis; sporulis filiformibus, lenissime curvulis, 20-25 ≃ $1^1/_2$, parce obsoleteque septatis, hyalinis.

Hab. in foliis Evonymi europæi in Germania et Ital. bor, 2596

43. **Septoria ascochytella** Sacc. Mich. II. p. 280. — Maculis olivaceis vel lutescentibus, vagis; peritheciis hinc inde aggregatis, lenticularibus, punctiformibus, 100 μ. diam., poro pertusis; sporulis tereti-fusoideis, 12–15 ≃ 1½–2, rectis curvulisve, 1-septatis, hyalinis.

Hab. in foliis languidis Paliuri aculeati prope Padova Ital. bor. (Bizzozero).

44. **Septoria Zizyphi** Sacc. Mich. I. p. 173. — Maculis arescendo albicantibus v. pallide ochraceis, fusco-marginatis, angulosis; peritheciis sparsis lenticularibus, punctiformibus, pertusis; sporulis filiformibus, 15 ≃ 1, leviter curvis, hyalinis. 2597

Hab. in pag. super. foliorum Zizyphi vulgaris, Selva in Italia boreali.

45. **Septoria orthospora** Lév. Ann. Sc. nat. 1848, p. 251. — Peritheciis epiphyllis, sparsis, obtectis, globosis, intus extusque nigris; ostiolis pertusis; sporulis linearibus, rectis, continuis, utrinque obtusis, pellucidis. 2598

Hab. in foliis Ilicis Aquifolii, Saint-Germain prope Parisios in Gallia.

46. **Septoria examinans** B. et C. North Americ. Fungi n. 435 bis. — Peritheciis gregariis punctiformibus ocellatis in folio dealbato sitis; sporulis filiformibus flexuosis 25 μ. longis. 2599

Hab. in foliis dealbatis Ilicis in America bor.

47. **Septoria ilicifolia** C. et. Ell. in Grevillea. — Peritheciis punctiformibus, atris, semiimmersis, e macula pallida fusco-cincta oriundis; sporulis minutissimis, hyalinis. 2600

Hab. in foliis Ilicis, New Jersey Amer. bor.

48. **Septoria Pistaciæ** Desm. Ann. Sc. Nat. 1842, p. 112. — Amphigena; maculis parvis, numerosis, suborbiculatis, fuligineis; peritheciis innatis, minutissimis, nigris; cirris ochroleucis; sporulis linearibus rectis vel curvatis, 3–7 nucleolatis, plerumque 20 μ. long. 2601

Hab. in foliis languescentibus Pistaciæ veræ in Gallia, et P. Lentisci, Pola Istriæ.

49. **Septoria rhoina** B. et C. North Americ. Fungi n. 434 (*S. Rhoidis*). — Maculis parvis albis, margine lato nigro cinctis; perithecio centrali; sporulis vermiformibus, 75 μ. longis, flexuosis. 2602

Hab. in foliis Rhois Cotini etc., New England (Sprague), Forestburgh, Buffalo Amer. bor. (Peck, Clinton).

50. **Septoria? Rhois** (Wallr.) Sacc. *Helicobolus Rhois* Wallr. Fl. Crypt. n. 3646. — Peritheciis membranaceis nigro-fuscis minutissimis 2603

conglomeratis synphlœodeis, ex vertice tenuato stillam sporularum vermicelliformem lutescentem exerentibus.

Hab. in foliis languidis Rhois typhinæ in hortis Thuringiæ.

51. **Septoria Leveillei** Sacc. *Sept. Rhois* Lév. in Demid. Voy. p. 114, t. 5, f. 4 (non vidi), nec Wallr. 2604

Hab. in foliis Rhois in Tauria.

52. **Septoria irregularis** Peck Bot. Gaz. 1880, p. 34. — Maculis minutis, angulosis, confluentibus, initio in pag. sup. foliorum luteis dein rubro-brunneis, fusco-marginatis, in pag. infer. brunneis vel griseo-brunneis; peritheciis hypophyllis, quandoque amphigenis, irregularibus, nigris; sporulis numerosis, filiformibus, hyalinis, 30–45 μ. longis, subinde obsolete 1-septatis. 2605

Hab. in foliis vivis Rhois Toxicodendri, Illinois Amer. bor.

53. **Septoria Ceratoniæ** Passer. Funghi Parm. Sept. ad n. 39 (in nota). — Peritheciis epiphyllis sparsis vel aggregatis, primo tectis, dein erumpentibus, atris, poro apertis; sporulis bacillaribus, rectis integris, obscure nucleolatis, hyalinis, 12–15 ≃ 2–2,5. 2606

Hab. in foliis putrescentibus Ceratoniæ Siliquæ, Licata Siciliæ (Beltrani), Porto Maurizio Liguriæ (G. Gentile).

54. **Septoria Cercidis** Fr. in Lév. Ann. Sc. nat. 1848, p. 251. — Hypophylla; peritheciis innatis, punctiformibus, globosis, nigris, in maculam conglomeratis; cirro albido; sporulis longis linearibus, rectis vel flexuosis, 2–3-septatis, utrinque obtusis. 2607

Hab. in foliis Cercidis Siliquastri in Delphinatu.

55. **Septoria Siliquastri** Passer. in Rabh. Fung. eur. 1878, Thüm. Mycoth. univ. 995. Just Botan. Jahresbericht II. p. 338. — Maculis subcircularibus expallentibus; peritheciis sæpius epiphyllis, punctiformi-lenticularibus; sporulis longe filiformibus flexuosis et subtorulosis, continuis, intus granulosis. 2608

Hab. in foliis subvivis Cercidis Siliquastri in agro parmensi et goritiensi.

56. **Septoria Robiniæ** Desmz. 17 Not. 6. p. 23. — Maculis irregularibus e flavido exaridis; peritheciis minimis sparsis, sepultis, pallidis, cirro albido dehiscentibus; sporulis bacillaribus rectis vel leniter curvis, 25–28 ≃ 2,5 continuis hyalinis. 2609

Hab. in foliis languescentibus Robiniæ Pseudacaciæ in Gallia et Italia.

57. **Septoria curvata** (Rab. et Br.) Sacc. *Septosporium curvatum* Rab. et Braun, Krankh. d. Pflanz. p. 14, t. I. A. — Maculis imprimis hypophyllis, brunneis, subcircularibus v. oblongis; peritheciis glo- 2610

bulosis, obtusis, prominulis, atris, mox late apertis; sporulis cylindraceis, curvulis, utrinque obtusiusculis, 1-2-septatis, hyalinis, 40-60 ≃ 5-6.

Hab. in foliis Robiniæ Pseudacaciæ, quæ mox elabuntur, in Germania, præcipue Berolini.

58. **Septoria Cytisi** Desm. 14. Not. 6. p. 24. — Maculis amphigenis, minutis, numerosis, albis, exaridis, brunneo-cinctis, subrotundatis; peritheciis 1-3, epiphyllis, fusco-nigris, minutissimis, poro apertis; sporulis longissimis, curvatis vel flexuosis, multiseptatis, hyalinis, 90-100 ≃ 3,5. 2611

Hab. in foliis vivis v. languidis Cytisi Laburni in Italia et Gallia.

59. **Septoria Laburni** Passer. Funghi Parm. Septor. n. 30. — Peritheciis punctiformibus, atris, vertice acuto, in maculis irregularibus arescendo dealbatis sparsis; sporulis bacillaribus, integris, hyalinis, rectis vel arcuatis aut flexuosis, 12-20 ≃ 2. 2612

Hab. in foliis languidis Cytisi Laburni, sociâ *Ascochytâ Cytisi* Lib.? (sporulis biscoctiformibus, 1-septatis, hyalinis), Parma Italiæ (Passer.), Malmedy (Libert).

60. **Septoria Emeri** Sacc. Mich. I. p. 173. — Maculis arescendo dealbatis, fusco-cinctis, variis; peritheciis paucis punctiformibus, lenticularibus, pertusis; sporulis filiformibus, utrinque acutatis, curvulis, 20 ≃ ¾, continuis, hyalinis. 2613

Hab. in foliis Coronillæ Emeri in silva Montello Ital. bor.

61. **Septoria Drymios** Mont. Fl. Chil. VII. p. 493. *Rhabdospora Drymios* Mont. Syll. crypt. p. 278. — Epiphylla; peritheciis innatis confertim gregariis globosis, tandem cupulari-collapsis, atris, poro lacero pertusis; cirro albo; sporulis baculiformibus obtusis subsessilibus, obscure septatis. 2614

Hab. in foliis Drymidis chilensis in Chile (Gay).

62. **Septoria Rosæ** Desmz. Exs. n. 535. *Ascochyta Rosarum* Lib. Exs. n. 50? — Maculis fuscis, flavo-rubro-cinctis; peritheciis epiphyllis, minutis, depressiusculis, numerosis, brunneis; sporulis aciculari-clavulatis, 70-90 ≃ 3,5-4, nubilosis, hyalinis. 2615

Hab. in foliis Rosæ caninæ, R. pumilæ, R. scandentis in Gallia, Italia, Lusitania, Belgio. — var. **Sempervirentis** Dur. et Mont. Fl. Alg. p. 595. Epiphylla; maculis parvis fuscidulis, zona obscuriore cinctis; peritheciis innatis, sparsis fuscis minutis, 100 μ. crassis, tandem poro pertusis; sporulis cylindricis curvatis obscure 3-4-septatis, 30-50 ≃ 2,5. In foliis vivis aut languescentibus

Rosæ semperirentis circa Alger in Africa (Durieu). An eadem ac *Sept. Rosæ-arvensis?*

63. **Septoria Rosæ-arvensis** Sacc. Mich. I. p. 176. M. V. n. 1019, 2616
Septoria rosana Thüm. Contr. Myc. Lus. n. 620. — Maculis pallidis, fusco-cinctis; peritheciis punctiformibus, epiphyllis, nigricantibus; sporulis acicularibus, 50–60 ≃ $2^1/_2$–3, obsolete 4–5-septatis, hyalinis.

Hab. in foliis Rosæ arvensis in silva Montello (Saccardo), Rosæ sempervirentis, Chieti (Passerini), Rosæ cultæ pr. Coimbra (Moller). — Affinis *Septoriæ Rosæ.* An probe diversa a *Septoria Rosarum?*

64. **Septoria Rosarum** West. Bull. de Bruxell. 1851, p. 396. *Sept.* 2617
Rosæ β. minor West. et Wall. Exs. n. 426. — Epiphylla; maculis minutis, rotundatis, sparsis, pallidis purpureo-cinctis; peritheciis raris, semiemersis, nigris; sporulis flexuosis, cylindricis, utrinque obtusis, 3–6-nucleatis.

Hab. in foliis vivis Rosæ pumilæ et collinæ nec non Rosarum cultarum in Belgio, Anglia et Italia.

65. **Septoria ascochytoides** Sacc. Mich. I. p. 178. — Maculis sub- 2618
circularibus oblongisve, arescendo dilute ochraceo-fulvescentibus, atrosanguineo-marginatis; peritheciis epiphyllis gregariis, lenticularibus, punctiformibus, distincte pertusis, ochraceis; sporulis cylindraceis v. subfusoideis, 18–20 ≃ $2^1/_2$–3, 1-septatis, ad septum leniter constrictis, utrinque obtusiusculis, minute 4-guttulatis, hyalinis.

Hab. in foliis Spirææ decumbentis, Covolo, Treviso Ital. bor., et Spirææ cujusdam in Sibiria asiatica.

66. **Septoria Rubi** West. Exs. n. 938, Kickx Flor. Fl. p. 433. — Ma- 2619
culis rotundatis, brunneo-rufis dein centro albidis purpureo-cinctis; peritheciis epiphyllis, brunneo-nigris, depressiusculis, late pertusis, paucis; sporulis filiformibus, 40–55 ≃ 1,5, obscure nucleolatis et obscurius 2–3-pluri-septulatis, hyalinis.

Hab. in foliis Ruborum in Belgio, Gallia, Italia, Britannia, Lusitania, Amer. bor. — *Sept. Rubi* R. et C. North Am. Fungi n. 436, *Depazea areolata* in Thüm. M. U. n. 296 et *Spilosphæria Ruborum* Rabenh. non differre videntur. Sporulæ longitudine valde ludibundæ.

67. **Septoria Cratægi** Kickx, Flora crypt. Fl. II. p. 433. — Maculis 2620
brunneo-fuscis, pallescentibus, dein centro albido, non vel nigro-cinctis; peritheciis epiphyllis, minutis, prominulis, nigris; sporulis

filiformibus, acicularibus, curvulis, 60 ≃ 1,5, continuis v. obsolete septatis guttulatisve, hyalinis.

Hab. in foliis Cratægi Oxyacanthæ et oxyacanthoidis in Gallia, Italia, Belgio, frequens.

68. **Septoria Cydoniæ** Fuck. Symb. mycol. p. 104. — Peritheciis gregariis, subconfluentibus, tectis, minutis, atris, ostiolis prominulis, perforatis; sporulis angustissime filiformibus, continuis, hyalinis. 2621

Hab. in foliis vivis languidisve Cydoniæ vulgaris in Germania, Austr. infer. et Italia bor.

69. **Septoria cydonicola** Thüm. Symb. Myc. Austr. n. 12. *Septoria Bolleana* Thüm. Contr. Funghi Litor. n. 193, t. I. f. 25. — Peritheciis globosis, epiphyllis, sparsis, emersis, parvis, atris in maculis exaridis, griseo-pallidis, irregularibus, vix vel non obscure marginatis; sporulis plus minusve cylindraceis, minime curvulatis, utrinque obtuso-truncatis, bi-triseptatis, hyalinis, 10-14 ≃ 3. 2622

Hab. ad folia viva Cydoniæ vulgaris in agro goritiensi. — A *Sept. Cydoniæ* satis differt.

70. **Septoria Mespili** Sacc. Mich. I. p. 177. — Maculis arescendo subochraceis, rufocinctis, variis; peritheciis punctiformibus; sporulis bacillaribus curvulis, 30-35 ≃ 1-1½ continuis, hyalinis, pluriguttulatis. 2623

Hab. in pag. sup. foliorum Mespili germanicæ, Susegana Treviso Ital. bor., sociâ *Phyllostictâ Mespili* Sacc., nec non in Gallia pr. Saintes (Brunaud).

71. **Septoria piricola** Desmz. 18 Not. 7, p. 8. *Septoria dealbata* Lév. ex parte, *Sept. Piri* West. Exs. n. 136. — Epiphylla; maculis exaridis, albo-griseis, nitidulis, parvis, sparsis, subrotundatis vel irregularibus, anguste brunneo-marginatis; peritheciis paucis, minutis, prominulis, nigris, poro pertusis; cirris albidis v. olivaceis; sporulis filiformi-elongatis, curvulis, 2-septatis, multiguttulatis, 60 ≃ 3,5, dilute olivaceis. 2624

Hab. in foliis vivis Piri communis in tota Europa. — Spermogonium *Sphærellæ Lucillæ* Sacc. videtur.

72. **Septoria nigerrima** Fuck. Symb. p. 104. — Peritheciis immersis maculæ albidæ insidentibus, cirros longos aterrimos protrudentibus; sporulis filiformibus, curvatis, septatis, utrinque obtusis, hyalinis. 2625

Hab. in foliis Piri communis in Rhenogovia. — « A *Sept. piricola* sporulis hyalinis differre videtur, sed quomodo cirri atri? »

73. **Septoria perularum** (Thüm.) Sacc. *Cryptosporium perularum* Thüm. in Wien. Landw. Zeit. 1879, p. 276. — Peritheciis subcu- 2626

ticularibus minutissimis vix visibilibus punctiformibus, nigris, gregariis, membranaceis postremo apice apertis; sporulis numerosis fusiformibus, continuis utrinque acutatis, arcuatis vel subrectis, hyalinis 12–18–(sæpius 16) ≃ 3,5–4.

Hab. in perulis subsiccis ramulorum vivorum Piri communis, Laibach Carnioliæ (Voss).

74. **Septoria hyalospora** (Mont. et Ces.) Sacc. F. Ven. Ser. V. p. 204. 2627
Cryptosporium hyalosporum Mont. et Ces. Syll. p. 273. — Hypophylla, minutissima. gregaria; peritheciis hemisphæricis, $^1/_4$ mill. diam., tandem pertusis, atris; sporulis cylindraceis in hemicyclum curvatis, 30 ≃ $3^1/_2$, 1-septatis, hyalinis, pedicellatis.

Hab. in foliis languidis Sorbi torminalis in Italia et Germania. — *Septoria Sorbi* (Ces.) Fuck. in foliis Sorbi Ariæ in Italia, Britannia et Germania *Sphærellæ* initium sistit.

75. **Septoria Sorbi-hybridæ** Passer. Funghi Parm. Septoria n. 52. — 2628
A *Septoria piricola* differt sporulis multo longioribus, tenuioribus et multinucleolatis.

Hab. in foliis languidis caducisve Sorbi hybridæ, Parma in Italia boreali.

76. **Septoria disseminata** Desm. 14 Not. 6, pag. 23. — Epiphylla; 2629
peritheciis sparsis, minutissimis, epidermide nigrificata tectis, demum erumpentibus, poro apertis; cirris albidis; sporulis tenuissimis curvulis, rectiusculis, 15–20 ≃ $1^1/_2$, nubilosis.

Hab. in foliis siccis Pruni Lauro-cerasi in Gallia.

77. **Septoria lauro-cerasina** Passer. Funghi Parm. Septor. n. 40. 2630
(*S. Lauro-cerasi*). — Peritheciis hypophyllis sparsis, tectis, subglobosis, atris; sporulis bacillaribus hyalinis, basidiis filiformibus plus minus longis fultis, 12 ≃ 2,5.

Hab. in foliis siccis dejectis Pruni Lauro-cerasi, Parma in Italia boreali.

78. **Septoria Lauro-cerasi** Desm. et Grog. Fungi Gall. n. 126. — 2631
Maculis minutis circularibus, pallidis, vere peculiaribus; sporulis..... a me non visis.

Hab. in foliis Pruni Lauro-cerasi, Toulouse in Gallia.

79. **Septoria Pruni-Mahaleb** Therry in Roum. Rev. Myc. V. p. 178. 2632
— Maculis epiphyllis, minutis, rotundatis, brunneo-rubris, dein a matrice avulsis, leniter zonatis, in macula majore confluentibus; peritheciis brunneo-nigris prominulis poro pertusis; sporulis cirro albido expulsis, longis, linearibus, arcuatis, hyalinis, 30 ≃ 1.

Hab. in foliis Pruni Mahaleb, Lyon Galliæ (Therry).

80. **Septoria cerasina** Peck Rep. on the St. Mus. New York. — Maculis sparsis vel confluentibus, minutissimis, subangulosis, brunneis vel rubro-brunneis; peritheciis paucis, siccis collapsis, quasi marginatis, pallidis vel succineis; cirris albis; sporulis longis, filiformibus, sæpe valde curvatis 50-75 μ. longis. 2633

Hab. in pagina inferiore foliorum Pruni serotinæ, Lake Pleasant in America boreali.

81. **Septoria Pruni** Ellis Amer. Nat. 1882, p. 811. — Peritheciis in maculis brunneis deciduis, 1-3 mill. diam., immersis; sporulis cylindraceis, curvatis, obtusis, 4-6-septatis, 30-50 ≃ 2. 2634

Hab. in foliis Pruni americanæ, Lexington Amer. bor.

82. **Septoria Ravenelii** Thüm. Spec. Fung. Am. trig. Spec. n. 14. — Peritheciis hypophyllis, magnis, prominulis, aureis, patellæformibus, irregularibus in maculis parvis, purpureis; sporulis longis, fusiformibus, lunulato-curvatis, utrinque obtusiuscule acutatis, hyalinis, obscure 3-4-septatis, 40-50 ≃ 4, in cirros aureos erumpentibus. 2635

Hab. in foliis languidis Cerasi carolinianæ, Aiken in Carolina austr. Americ. sept. (Ravenel).

83. **Septoria effusa** (Lib.) Desm. in Ann. Sc. nat. 1847, VIII. p. 23. Sacc. Mich. II. p. 346, *Ascochyta effusa* Lib. Exs. n. 355. — Peritheciis in maculis rufescentibus subgregariis, punctiformibus, late hiantibus; sporulis bacillaribus, curvulis, 20-25 ≃ 1¾-2, spurie 3-4-septatis, hyalinis. 2636

Hab. in foliis vivis Pruni Cerasi in Gallia et Gorizia.

84. **Septoria paliens** Sacc. *Gnomoniæ erythrostomæ* spermog. Fuck. Symb. p. 123. — Peritheciis (?) subsuperficialibus, gregariis, in macula magna discolori, punctiformibus, orbicularibus, depressis, diaphanis, pallidis; sporulis filiformibus, curvatis, continuis, longis, hyalinis. 2637

Hab. in pag. infer. foliorum vivorum v. languentium Cerasi Avium in Jura Helvetiæ (Morthier).

85. **Septoria Photiniæ** Berk. et C. North Pac. Exp. n. 127. — Peritheciis epidermide nigrificatâ medio ocellatâ tectis; sporulis rectis brevibus linearibus. 2638

Hab. in foliis Photiniæ in California.

86. **Septoria Calycanthi** Sacc. et Sp. Sacc. Mich. I. p. 176. — Maculis arescendo subochraceis; peritheciis punctiformibus, dense gregariis, quandoque subconcentrice digestis, amphigenis, 100-150 μ. diam.; sporulis cylindraceis, utrinque leniter attenuatis, 15-25 ≃ 1½-2¼, medio 1-septatis raroque subconstrictis, rectis curvulisve, hyalinis. 2639

Hab. in foliis languentibus Calycanthi floridi, Conegliano Ital. bor. (Spegazzini), et in foliis Calycanthi levigati, Coimbra Lusitaniæ (Moller).

87. **Septoria phyllostictoides** Sacc. Mich. II. p. 101. — Maculis latis vagis, albicantibus; peritheciis epiphyllis punctiformibus, lenticularibus, 100 μ. diam.; sporulis fusoideo-bacillaribus, 12–15 ≃ 1, rectiusculis, continuis v. 1-septatis, hyalinis. 2640

Hab. in foliis Deutziæ scabræ pr. Rouen Galliæ (Letendre).

88. **Septoria ceuthosporoides** (Cooke) Sacc. *Cryptosporium ceuthosporoides* Cooke et Harkn. Grev. 1881, p. 127. — Peritheciis deplanatis, fuscis, ceuthosporoideis, demum superne fissis; sporulis fusiformibus, curvatis, hyalinis, 18–20 ≃ 3. 2641

Hab. in foliis emortuis Eucalypti in California. — Habitus quasi *Ceuthosporæ phacidioidis.*

89. **Septoria Mortolensis** Penz. et Sacc. Funghi Mortol. n. 27. — Maculis nullis; peritheciis laxe gregariis, numerosis, majusculis, hypodermicis, dein erumpentibus, 150–200 μ. diam., sphæroideis, depressis, ostiolo paullum prominente, contextu parenchymatico, nigris, carbonaceis; sporulis longe cylindraceis, rectis, utrinque rotundatis, integris vel spurie 1–2-septatis, plasmate granuloso farctis, 50–55 ≃ 3–3,5, basidiis brevibus, hyalinis, simplicibus. 2642

Hab. in foliis delapsis Eucalypti amygdaloidis et Acaciæ sp., in foliis vivis Hederæ algeriensis, Mortola in Ital. bor. — Affinis *Septoriæ siculæ.*

90. **Septoria Jaborosæ** Speg. Arg. Pug. I. p. 188. — Maculis subrotundis, confluendo irregularibus, griseo-candicantibus, pellucidis, margine incrassato rufescente cinctis; peritheciis centro macularum densiuscule gregariis, minutis, 90–100 μ. diam., lenticularibus, atris, contextu parenchymatico, membranaceo, ostiolo latiusculo donatis; sporulis bacillari-filiformibus, rectis vel flexuosis, utrinque acutiuscule rotundatis, 25–30 ≃ 1–1,5, hyalinis, 1–3-septatis. 2643

Hab. in foliis vivis vel languidis Jaborosæ integrifoliæ vulgatissima ubique in agro bonariensi Argentinæ.

91. **Septoria Hederæ** Desmz. Ann. Sc. natur. 1843, XIX. p. 340, Sacc. Mich. I. p. 172. — Epiphylla; maculis suborbiculatis, eburneis, exaridis, ambitu lato et fusco-purpureo; peritheciis minutis, tectis; ostiolis nudis, globosis, poro apertis; sporulis linearibus, tenuissimis, guttulatis, hyalinis, flexuosis, 30–40 ≃ 1–2. 2644

Hab. in foliis Hederæ Helicis in Italia, Belgio, Gallia, Germania, Britannia.

92. **Septoria Desmazierii** Sacc. Mich. I. p. 172, *Sept. Hederæ* Desm. Not. XVII. p. 23. — Maculis nullis, peritheciis numerosis, sparsis, minutissimis, nigris, epidermide tectis, poro apertis; sporulis in semicirculum curvatis, bacillari-clavulatis, 20 μ. longis. 2645

Hab. in foliis languidis Hederæ Helicis in Gallia.

93. **Septoria insularis** B. et Br. Ann. N. H. n. 747, t. 15, f. 8. — Maculis brunneis amplis distinctis; peritheciis initio epidermide elevata et centro pustulata tectis; sporulis filiformibus, leniter curvulis, 38 μ. longis. 2646

Hab. in foliis semiemortuis Hederæ in Britannia.

94. **Septoria Grossulariæ** (Lib.) West. Crypt. belg. n. 944. *Ascochyta Grossulariæ* Lib. Exs. n. 250. — Maculis initio brunneis dein albicantibus, centro aridis, fusco-cinctis; peritheciis epiphyllis, minutis, nigris, sparsis, poro amplo pertusis; sporulis linearibus, curvulis, 12-16 ≃ 1, minute 6-7-guttulatis, hyalinis; cirro albido. 2647

Hab. in foliis subvivis Ribis Grossulariæ in Italia, Belgio, Austria infer. — Sporulæ, sec. Kickx Fl. cr. Flandr. I. pag. 431, 10-12-guttulatæ.

95. **Septoria sibirica** Thüm. Pilzfl. Sibir. n. 814. — Peritheciis epiphyllis, sparsis, mediis, primo tectis demum liberatis, conicis, ostiolatis, nigris in maculis parvulis, sinuosis, arescendo sordide candidis, anguste fusco-marginatis; sporulis tenuissimis, gracillimis, bacillaribus, utrinque truncatis, continuis vel obsolete uni-triseptatis, semper curvatis, sæpe lunulatis, hyalinis, 55-75 ≃ 1,5. 2648

Hab. ad folia viva Ribis aciculare in rupestribus pr. Kavkaskoje in Sibiria asiatica. — A *Septoria Grossulariæ* Westd. et *S. Ribis* Desm. sporulis triplo vel duplo majoribus longe diversa!

96. **Septoria Ribis** Desmz. Mem. Soc. des Sc. de Lille, 1842. *Ascochyta Ribis* Lib. Exs. n. 53. *Phlœospora Ribis* West. Bull. Bruxell. 1850, p. 20. — Hypophylla; maculis parvulis, irregularibus, venulis cinctis, brunneo-purpurascentibus; peritheciis innatis, minutissimis, convexis, fusco-nigrescentibus, demum ore orbiculari late apertis; cirris roseis; sporulis elongatis, linearibus, curvatis, pluri-nucleolatis, 50 μ. longis. 2649

Hab. in foliis languescentibus Ribis nigri in Gallia, Germania et Anglia.

97. **Septoria Aucubæ** West. Bull. ac. roy. belg. II. Ser. t. XII. n. 7. — Maculis epiphyllis, latis, irregularibus, brunneo-pallidis, fusco-marginatis; peritheciis nigris, lucidis, sparsis; cirris albidis; sporulis cylindricis, 30 ≃ 2,5. 2650

Hab. in foliis Aucubæ japonicæ in Belgio (Martens et Dumont).

98 **Septoria Corni-maris** Sacc. Mich. I. p. 178. — Maculis amplis, irregularibus, sæpe marginalibus, fuscis, zona saturatiore cinctis; peritheciis punctiformibus, lenticularibus pertusis; sporulis bacillaribus, curvulis 15-30 ≃ $1^3/_4$-3, utrinque obtusis, initio pluriguttulatis, dein 3-4-septatis, hyalinis, in cirros albidos protrusis. 2651

Hab. in pag. sup. foliorum Corni maris, Colfosco, Treviso, Italiæ borealis.

99. **Septoria cornicola** Desmz. Exs. n. 342, Kickx Fl. cr. Flandr. I. p. 430. *Sept. Corni* Niessl, *Depazea cornicola* DC. Fl. fr. VI. p. 146 ex parte. — Maculis orbicularibus, griseis, nigro-purpureo marginatis; peritheciis epiphyllis, sparsis, nigris, depressulis; sporulis cylindraceis, curvulis, 35-40 ≃ 2-2,5, obsolete 2-4-septatis, hyalinis; cirro subalbido. 2652

Hab. in foliis Corni sanguineæ in Italia, Belgio, Gallia, Britannia, Germania, Austria.

100. **Septoria Xylostei** Sacc. et Winter, Hedwigia 1883, p. 181. — Maculis amphigenis, candicantibus, atro-marginatis, minutis; peritheciis lenticularibus, tectis, 120-150 μ. diam., pertusis, circa ostiolum densioribus; sporulis filiformibus, subcurvis, 40-60 ≃ 1,5, hyalinis, 6-8-guttulato-subseptatis. 2653

Hab. in foliis vivis v. languidis Loniceræ Xylostei, Zürich, Helvetiæ.

101. **Septoria obscurata** Thüm. Contr. Myc. Lusit. n. 389. — Peritheciis epiphyllis, paucis, gregariis, submagnis, emerso-conicis, atris in maculis obscuris, cinereis, orbiculatis, opacis, subexaridis, margine nigro purpurascente obliterato cinctis, subtus subfuscis; sporulis rectis, cylindraceis, utrinque obtuse rotundatis, obsolete biseptatis, ad septa non constrictis, achrois sed impellucide grumulosis, 12 ≃ 4. 2654

Hab. in foliis vivis Loniceræ Periclymeni, Coimbra Lusitaniæ (Moller).

102. **Septoria sambucina** Peck, 28 Rep. on the St. Mus. N. Y. — Maculis aridis, albidis late fusco-cinctis, brunneis vero vel purpureo-brunneis in hypophyllo; peritheciis superficialibus, paucis, minutis; sporulis longis, filiformibus, plus minusve curvatis, obscure 6-septatis, 50-75 μ. longis. 2655

Hab. in foliis Sambuci canadensis, Buffalo Amer. bor.

103. **Septoria Leycesteriæ** Sacc. et Sp. Sacc. Mich. I. p. 177. — Ma- 2656

culis subcircularibus sinuosisque, ochraceis, brunneo-cinctis; perithecis laxe gregariis, amphigenis, punctiformibus, lenticularibus 100–200 μ. diam. pertusis, contextu tenui-membranaceo, celluloso, dilute olivaceo; sporulis cylindraceis, curvulis, 25–30 ≃ 3–4, 1-septatis, quandoque constrictis, obsolete 2–4-guttulatis, hyalinis.

Hab. in foliis Leycesteriæ formosæ, Conegliano Ital. bor. (Spegazzini).

104. **Septoria Viburni** West. Bull. Soc. de Brux. 1852, XIX. part. 3, p. 121. — Peritheciis epiphyllis, minutis, semi-emersis, nigris in maculis irregularibus centro albidis, brunneo-cinctis; sporulis cylindraceis, utrinque obtusis, 5–7-guttulatis, hyalinis. 2657

Hab. in foliis Viburni Opuli, V. Lantanæ in Belgio, Italia, Britannia.

105. **Septoria albo-punctata** Cooke in Grev. XII. p. 25. — Maculis epiphyllis minutis, albis, purpureo-cinctis; perithecis 1-2 in centro maculæ insidentibus; sporulis linearibus, nucleatis, hyalinis, 60–70 ≃ 2. 2658

Hab. in foliis Vaccinii arborei in Carolina austr. Americæ borealis.

106. **Septoria difformis** C. et Peck Rep. on the St. Mus. N. Y. — Maculis suborbicularibus, brunneis; peritheciis aggregatis, nigris, amphigenis; sporulis profusis, linearibus, rectis vel curvatis hyalinis, 15 μ. longis, in massulas albas v. glaucas dein ejectis. 2659

Hab. in foliis vivis Vaccinii pensylvanici, Lake Pleasant Amer. bor.

107. **Septoria stemmatea** (Fr.) Berk. Ann. Nat. Hist. n. 192. *Sphæria* (Depazea) *stemmatea* Fr. S. M. II. p. 528. — Epiphylla gregaria; peritheciis globosis, minutis, in maculis aridis dealbatis rotundatis sparsis; sporulis..... 2660

Hab. in foliis Vaccinii Vitis-ideæ in Suecia, Anglia, Italia, Rossia. — Sistit maculas subrotundas, 2–3 lin. latas, subexaridas, sordide fuscescentes, cui insident perithecia numerosa, minuta, sublibera, et epidermide lactea laxe tecta; dein, excussa epidermide, nuda, opaca, evacuata subcircumscissa. «Sporulas nondum reperire licuit, sed nucleum (ascigerum?) immaturum.»

108. **Septoria Unedonis** Rob. et Desm. 14 Not. 1847, p. 20. — Maculis epiphyllis, minutis, numerosis, irregularibus, albido-exaridis, ambitu lato purpurascentibus; peritheciis paucis, innato-prominulis, nigrescentibus, convexis collabascendo concavis; sporulis elongatis, tenuissimis, curvulis, subcontinuis, 25 ≃ 1½. 2661

Hab. in foliis languescentibus Arbuti Unedonis et Arb. canariensis in Gallia, Britannia, Lusitania, Italia et Austria inf.

109. **Septoria Rhododendri** Cooke in Grevillea. — Epiphylla; maculis orbicularibus, pallidis, atro-purpureo-cinctis; peritheciis punctiformibus, aggregatis vel circinatis; sporulis filiformibus, 40 μ. longis. 2662

Hab. in foliis Rhododendri, Maine Amer. bor.

110. **Septoria pulchella** B. et C. North Amer. Fungi n. 435. — Maculis rufulis lineâ nigrâ circumdatis; peritheciis punctiformibus; sporulis lineari-oblongis, 5 μ. longis. 2663

Hab. in foliis Andromedæ, Alabama Amer. bor.

111. **Septoria Stigma** B. et C. North Amer. Fungi n. 440 bis. — Peritheciis punctiformibus in areis foliorum dealbatis insidentibus; sporulis linearibus brevioribus, 15 μ. longis. 2664

Hab. in foliis Symploci, Alabama Amer. bor.

112. **Septoria Symploci** Ell. et Mart. Am. Nat. 1882, p. 1002. — Maculis albis, 1-1,5 mill. diam., brunneo-cinctis; peritheciis brunneis, subglobosis, hypophyllis, semiimmersis, irregulariter sparsis, 112 μ. diam.; sporulis hyalinis, cylindrico-clavatis, spurie 2-3-septatis, curvatis, 24-30 ≃ 3. 2565

Hab. in foliis languidis Symploci tinctoriæ, Green Cove Springs Amer. bor.

113. **Septoria Bumeliæ** Sacc. Mich. I. p. 180. — Maculis nullis v. obsoletis; peritheciis plerumque hypophyllis, hinc inde maculiformiter dense congregatis, globoso-lenticularibus, prominulis 70-100 μ. diam., pertusis; sporulis fusoideo-bacillaribus, 10-15 ≃ 1¼-2, rectis curvulisve, 2-nucleatis (simulate 1-septatis) hyalinis. 2666

Hab. in foliis languidis Bumeliæ lycioidis in horto patavino Ital. bor. — Ad genus *Ascochytam* nutat.

114. **Septoria Jasmini** Roum. Revue Mycolog. IV. pag. 22. Fungi gallici n. 1887. — Maculis epiphyllis pustulatis, brunneis dein albis, brunneo-marginatis, circularibus dein confluentibus difformibus; peritheciis paucis, 2-5 nigris, rariter fertilibus; sporulis fusiformibus hyalinis, in cirros albos expulsis, 6-10 μ. long. 2667

Hab. in foliis Jasmini in Gallia.

115. **Septoria Sambac** Passer. Septor. Parm. n. 86. — Maculis subrotundis albo-exaridis, fusco-marginatis; peritheciis epiphyllis punctiformibus atris, primo tectis, dein epidermide fissa cinctis; sporulis bacillaribus rectis hyalinis, 15 ≃ 2. 2668

Hab. in foliis Jasmini Sambac, Parma Italiæ bor.

116. **Septoria elæospora** Sacc. Mich. I. p. 178. — Maculis vagis arescendo ochraceis v. brunneis margine saturatiore cinctis; perithe- 2669
ciis epiphyllis, sparsis, innato-prominulis, punctiformibus, lenticularibus, 100 μ. diam. pertusis, laxe cellulosis, ochraceo-fuligineis; sporulis bacillari-fusoideis, rectis v. leniter curvulis, 25 ≈ 3, utrinque obtusiusculis, 3- (raro 4-septatis) e hyalino olivaceis.

Hab. in pag. super. foliorum Fraxini Orni, F. excelsioris et F. pubentis, Selva Ital. bor., Parenzo Istriæ et Coimbra Lusitaniæ. — A *Sept. Orni* Pass. et *S. Fraxini* Desm. rite diversa.

117. **Septoria Orni** Pass. Hedw. 1876 p. 108. Myc. univ. n. 395. Sacc. 2670
Mich. I. p. 177. — Peritheciis minutis, tectis, in maculis sordidis, fuscis, effusis; sporulis in cirrum albidum ejectis, filiformibus, breviusculis, rectis vel flexuosis, continuis vel remote et obsolete guttulato-septulatis, intus granulosis, 25-30 ≈ 1,5.

Hab. in foliis vivis vel languidis Fraxini Orni, Parma (Passerini), Treviso (Saccardo).

118. **Septoria Besseyi** Peck Bull. Tor. Cl. 1875, p. 77. — Hypo- 2671
phylla; peritheciis sparsis in tota pagina inferiore, prominulis, initio pallide ferrugineis vel subochraceis, dein nigris; sporulis latiusculis, cylindraceis, obtusis, curvulis, nucleatis, 40-55 ≈ 4, in massulas albidas v. cirros breves crassos erumpentibus.

Hab. in foliis vivis Fraxini, Ames, Jowa Amer. bor. — «Ex ipso cl. Peck cum *Sept. Fraxini* esset conjungenda, at e diagnosi mihi satis diversa videtur».

119. **Septoria Fraxini** Desm. Exs. n. 1086, nec Fr. (quæ *Cercospo-* 2672
ra), *Sept. Badhami* β. *Fraxini* Auersw. — Hypophylla; peritheciis minutis, nigris, semi-innatis, in maculis irregularibus sparsis; sporulis cylindraceis, utrinque truncatis, nucleolatis.

Hab. in foliis vivis Fraxini excelsioris, Fr. Orni in Gallia, Italia, Germania, Belgio, Britannia, Lusitania, Florida Am. bor. — Sporulas nondum vidi, sed tantum perithecia crebra prominula, forte *Sphærellæ* initium.

120. **Septoria Syringæ** Sacc. et Sp. Sacc. Mich. I. p. 176. — Macu- 2673
lis amphigenis, versiformibus, dilute ochraceo-lutescentibus, saturatius marginatis; peritheciis sparsis punctiformibus, lenticularibus 100-120 μ. diam., latiuscule pertusis, contextu laxe parenchymatico subochraceo; sporulis cylindraceo-bacillaribus, 14-18 ≈ 1½-2½, utrinque rotundatis, rectis curvulisve, obsolete 1-septatis, hyalinis.

Hab. in foliis Syringæ vulgaris, Conegliano Ital. bor. (Spegazzini), Saintes in Gallia (Brunaud). — Forte huc spectat *Sept.*

Syringæ West. « Les Crypt. d'après leurs stations » pag. 68 (nomen), sed diagnosim v. exemplar nullibi reperire potui.

121. **Septoria Phillyreæ** Thüm. Contr. Mycol. Lusit. n. 614. — Peritheciis amphigenis, solitariis vel paucis, magnis, lenticulari-punctiformibus, atris, emersis in macula parvula, arescendo-grisea, plus minusve sinuosa, fusco-nigro-marginata, in pagina folii inferiore fuscidula; sporulis bacillari-cylindraceis, rectis vel leniter arcuatulis, utrinque angustatis subacutatisve, triseptatis, achrois, 42-48 ≃ 4-5. 2674

Hab. in foliis vivis Phillyreæ latifoliæ, Coimbra Lusitaniæ (Moller).

122. **Septoria Oleæ-chrysophyllæ** Pass. F. Abiss. p. 191. — Peritheciis punctiformibus, acutis, dense sparsis, paginæ sup. totam superficiem occupantibus; sporulis cylindraceis, rectis v. vix curvis, utrinque obtusis, guttulatis, 7-8 ≃ $1^1/_2$ (an potius 15 ≃ 3?). 2675

Hab. in foliis Oleæ chrysophyllæ in Abyssinia. — « Verisimiliter non valde diversa a *Phoma Oleæ* ».

123. **Septoria crateriformis** (Dur. et M.) Sacc. *Ascospora crateriformis* Dur. et M. Fl. Alg. et Syll. n. 1005. *Sphæria Oleæ* var. β. *Phillyreæ* Montag. Ann., 2, I. p. 342. — Amphigena; peritheciis gregariis ovoideis innato-erumpentibus atro-nitentibus, apice poro amplo pertusis, tandem elabentibus foveolamque relinquentibus; sporulis linearibus pluriguttulatis, 15 ≃ 2,5, basidiis paullo brevioribus. 2676

Hab. in foliis Phillyreæ mediæ et latifoliæ in Gallia et apud Alger. — « *Phomæ Oleæ* affinis. »

124. **Septoria erythrostoma** (Dur. et M.) Sacc. *Ascospora erythrostoma* Dur. et M. Fl. Alg. et Syll. n. 1008. — Hypophylla; peritheciis sparsis innatis, ostiolo prominulo epidermide rubefacta cincto instructis; cirris....; sporulis cylindricis rectis specie septatis seu guttulas globosas uniseriatas foventibus. 2677

Hab. in folio Phillyreæ Alger (Durieu).

125. **Septoria Chionanthi** Cooke in Hedwigia, 1878, p. 38. — Hypophylla; peritheciis æruginosis, membranaceis, semiimmersis, numerosissimis, punctiformibus; sporulis linearibus, brevibus, obtusis, hyalinis, 8 μ. longis. 2678

Hab. in foliis Chionanthi virginici, S. Carolina (Ravenel).

126. **Septoria Olivæ** Pass. et Thüm. Contr. Myc. Lusit. n. 609. — Peritheciis plerumque epi- raro etiam hypophyllis, conicis, dense gregariis, mediis, aterrimis, sine macula; sporulis bacillaribus, le- 2679

niter arcuatis, utrinque obtusatis, continuis vel obscure unisepta-tis, hyalinis, 16–18 ≃ 4.

Hab. ad folia arida prostrata Oleæ sativæ Penedo da Saudade pr. Coimbra Lusitaniæ (Moller). — *Septoriæ* (Phomæ) *Oleæ* Dur. et Mont. facie similis sed sporidia plane diversa. Confer etiam *S. Evonymi japonicæ* Pass., *S. Ceratoniæ* Pass., *S. Laurocerasi* Pass., quæ sporulis similibus cum illa conveniunt.

127. **Septoria japonica** Thüm. Contr. Funghi Litor. n. 354. — Ma- 2680
culis obsoletis vel nullis; peritheciis in partibus foliorum emortuis, amphigenis, dense gregariis, pro ratione magnis, hemisphærico-lenticularibus, nitido-aterrimis; sporulis bacillaribus vel acicularibus, rectis, raro subarcuatis, utrinque angustato-acutatis, continuis vel raro obscure uniseptatis, hyalinis, 12–15 ≃ 2–2,5.

Hab. in foliis aridis Ligustri japonici, Gorizia in Ital. bor.

128. **Septoria Ligustri** (Desm.) Kichx Flandr. I. p. 354. *Depazea Li-* 2681
gustri Desm. Exs. n. 776. — Maculis pallide ochraceis, latis, amphigenis, irregularibus, rufo-marginatis; peritheciis globulosis, epiphyllis, punctiformibus, sparsis, numerosis; sporulis cylindraceis, utrinque obtusis, curvulis v. flexuosis, guttulatis, hyalinis.

Hab. in foliis languidis Ligustri vulgaris in Gallia et Belgio. — Sporulæ in exemplaribus gallicis a me visis metiuntur 15 ≃ 1.

129. **Septoria neriicola** Passer. Sept. Parm. n. 89. — Maculis nullis; 2682
peritheciis carbonaceis, erumpentibus, minutis, papillatis, hypophyllis; sporulis brevibus et tenuibus rectis, vel vix curvis, integris, hyalinis.

Hab. in pag. inf. foliorum Nerii Oleandri, Parma in Italia. — Tum a *Sept. Oleandri* Mont., tum a *Sept. oleandrina* Sacc. rite diversa.

130. **Septoria oleandrina** Sacc. Fungi Veneti V. p. 205. M. V. n. 533. 2683
Septoria Nerii (Auersw.?) Thüm. F. Austr. n. 692. — Maculis epiphyllis, subrotundis angulosisve confluentibusque, arescendo candicantibus; peritheciis remotiusculis, grandiusculis, 140–150 μ. diam., globulosis, poro amplo pertusis, contextu distincte parenchymatico fuligineo; sporulis filiformibus, inæquilongis, sæpe curvulis, quandoque clavulatis, 15–25 ≃ $1^1/_2$–2, obsolete septulatis, hyalinis.

Hab. in foliis languidis Nerii Oleandri in Italia, Gallia, Austria infer. — A *Sept. Oleandri* Dur. et M. valde diversa. *Depazea Nerii* Auersw. mihi ignota est, sed verisimiliter eadem ac mea species censenda est.

131. **Septoria Paulowniæ** Thüm. Contr. Mic. Litor. n. 194. t. I. f. 2684

15. — Peritheciis dense gregariis, epiphyllis, conicis, prominulis, ostiolatis, parvis, nigris in macula plus minusve orbiculata, exarida, griseo-fusca, zonata, dein lacerata; sporulis cylindraceis, rectis, utrinque obtuse rotundatis, uni- vel raro biseptatis, numerosis, hyalinis, 7-10 ≃ 2-2,5.

Hab. in foliis vivis languidisve Paulowniæ tomentosæ, Gorizia in Ital. bor. et Toulouse Galliæ.

132. **Septoria Thümenii** Sacc. *Depazea Buddlejæ* Thüm. F. Austr. Afr. n. 66. — Peritheciis sparsis, erumpentibus in foliorum paginæ superioris macula rufo-brunnea, distincta, minutis, atris; sporulis fusiformibus, curvatis, uni- sed pro maxima parte non septatis, 20 ≃ 6 hyalinis. 2685

Hab. in foliis vivis Buddlejæ auriculatæ in dumetis montis « Boschberg » prope Somerset-East, Promoot. bonæ spei, in consortio *Meliolæ quinquesporæ* (P. Mac-Owan).

133. **Septoria Buddlejæ** Kalch. et Cooke in Grev. 1880, p. 20. — Epiphylla; maculis irregularibus, fuscis, hinc illinc confluentibus; peritheciis membranaceis, semiimmersis; sporulis linearibus, rectis vel flexuosis, hyalinis, 40-50 μ. longis. 2686

Hab. in foliis Buddlejæ salvifoliæ in Africa australi.

134. **Septoria Cestri** (Mont.) Sacc. *Rhabdospora Cestri* Mont. Syll. crypt. p. 277. — Epiphylla, depazeoides; maculis amphigenis, orbicularibus, albis, fusco-limbatis; peritheciis globoso-depressis, siccitate collabentibus, atris opacis, poro pertusis; sporulis acicularibus rectis aut vix curvulis, obsolete septatis. 2687

Hab. in foliis Cestri Parqui in Chile (Bertero).

135. **Septoria Hippophaës** Desmz. et Rob. 21 Not. 1853, p. 2. — Maculis nullis; peritheciis hypophyllis raro epiphyllis, 150 μ. diam. sæpius sparsis, innato-prominulis, globosis, fusco-nigrescentibus; cirris helvolis; sporulis longissimis, curvatis, 60-75 ≃ 2,5. 2688

Hab. in foliis Hippophaës rhamnoidis in Gallia.

136. **Septoria Daphnes** Desmz. Ann. Sc. nat. 1843, XIX. pag. 339. *Leptothyrium Mezerei* Lib. Exs. n. 360. — Amphigena; maculis viridibus, irregularibus, indeterminatis; peritheciis perexiguis, sparsis vel gregariis, epidermide tectis ampulliformibus pallidis; cirris albidis; sporulis clavatis brevioribus, apice acutis, 2-4-nucleatis, subhyalinis, 20 μ. longis. 2689

Hab. in foliis languescentibus Daphnes Mezerei in Gallia et Germania. — Fere absque dubio eadem ac *Marsonia Daphnes*.

137. **Septoria argyræa** Sacc. Mich. I. p. 127. — Maculis arescendo 2690

ochraceis variis sæpe fusco-cinctis; peritheciis punctiformibus lenticularibus gregariis, $^1/_{10}$-$^1/_{12}$ mill. diam., pertusis; sporulis cylindraceis, rectiusculis v. tortuosis, 20–30 ≃ $2^1/_2$–3, utrinque obtusiusculis, hyalinis, dein in cirros breves carneolos protrusis.

Hab. in pagina superiore foliorum Elæagni argenteæ in horto botanico S. Giobbe Venetiis (P. Magnus). — A *Septoria Elæagni* Desm. differt sporulis septatis aliisque notis.

138. **Septoria phacidioides** Desm. 13 Not. p. 67. *Phacidium Buxi* Frank, sec. West. — Erumpens, hypo-rarius epiphylla, sparsa, numerosa, epidermide lacerata cincta; peritheciis globosis, fusco-nigris; ostiolis punctiformibus, nucleo gelatinoso; cirris tenellis, albis; sporulis magnis, oblongis, utrinque obtusis, 33 ≃ 10. 2691

Hab. in foliis Buxi in Gallia et Belgio. — «Vix *Septoria.*»

139. **Septoria kalmiæcola** (Schw.) Berk. et Curt. North Am. Fungi p. 74, *Sphæria* (Depazea) *Kalmiæcola* Schw. Sacc. Syll. II. p. 440. — Maculis candidis orbiculatis, margine intumescente cinctis et folia circumcirca nigrificantibus; peritheciis convexis, atris, concentricis, innatis; sporulis septorioideis. 2692

Hab. in foliis Kalmiæ latifoliæ etc. in Carolina et Pensylvania.

140. **Septoria (?) Celtis-gallæ** W. R. Ger. Bull. Torr. 1875, p. 78. — Maculis nullis; peritheciis minutissimis, nigris, immersis, sparsis; sporulis non visis. 2693

Hab. in gallis foliorum Celtidis occidentalis, New Paltz Sanding in Amer. bor. — «Ignotis sporulis, species perdubia».

141. **Septoria (?) Celtidis** Sacc. M. V. n. 552 et Fungi Ven. Ser. V. p. 204. — Maculis obsoletis; peritheciis globulosis, membranaceis, poro pertusis, 350–450 μ. diam., atris; sporulis raris, cylindraceo-clavulatis, curvulis, 40 ≃ 3, 3–5-septatis guttulatisque, hyalino-fuscidulis. 2694

Hab. in foliis languidis Celtidis australis, Vittorio (Treviso) Ital. bor. — A genere nonnihil extorris.

142. **Septoria Pipulæ** Cooke in Grevillea. — Maculis purpureo-brunneis, irregularibus, amphigenis; peritheciis immersis, indistinctis, tenuibus, epiphyllis; sporulis filiformibus, multi-nucleatis, 50–60 μ. longis. 2695

Hab. in foliis Fici religiosæ (vulgo *Pipula*), Belgaum Indiæ (Hobson).

143. **Septoria arcuata** Cooke ~~Grevill. II. p. 100~~. — Epiphylla; maculis albidis, orbicularibus, purpureo-cinctis; peritheciis minimis, 2696

immersis, ostiolo papillato, exserto; sporulis linearibus, arcuato-curvatis, multi-nucleatis 40–50 μ. longis.

Hab. in foliis Fici, Belgaum Indiæ (Hobson).

144. **Septoria brachyspora** Sacc. Mich. I. p. 529. — Maculis variis arescendo expallentibus, ochraceo-marginatis; peritheciis paucis punctiformibus, lenticularibus, late hiantibus, 80 μ. diam., contextu fusco-cinereo; sporulis, bacillaribus, curvulis, 12–15 ≃ 1, hyalinis. 2697

Hab. in foliis Fici elasticæ in calidariis, Saintes Galliæ (Brunaud).

145. **Septoria crustacea** Welw. et Curr. Fungi Angolenses VI. p. 286. — Peritheciis minutissimis, crusta nigra insertis et in acervulos multiformes confluentes, ostiolis minutis punctiformibus instructos compactis; sporulis filiformibus tenuibus, pallidis, longitudine variis. 2698

Hab. ad folia arboris familiæ Artocarpearum, Trombeta, Golungo alto, Angolæ. — «An *Cytosporinæ* affinior.»

146. **Septoria Artocarpi** Cooke Some Indian Fungi, in Grevillea. — Peritheciis aggregatis, in maculis brunneis orbicularibus insidentibus; sporulis minutis linearibus, 10 μ. longis. 2699

Hab. in foliis Artocarpi integrifoliæ, Mysore Indiæ.

147. **Septoria Excæcariæ** Speg. F. Argent. Pug. III. n. 110. — Maculis latiusculis, 2–5 mill. diam., indeterminatis, subarescentibus, griseo-fuscescentibus; peritheciis densiusculis, minutis 80–90 μ. diam., atris, lenticularibus, ostiolo parvulo pertusis, membranaceis, contextu olivascente; sporulis filiformibus, rectis v. flexuosis, granuloso-farctis, utrinque obtusiusculis, 35–45 ≃ 1, hyalinis. 2700

Hab. ad folia viva Excæcariæ [Sapii] biglandulosæ v. serratæ en Barracas al Norte in Argentina. (J. Cisneros).

148. **Septoria Garryæ** Roum. F. Gall. n. 31, Mich. II. pag. 100. — Maculis arescendo expallentibus, amphigenis; peritheciis punctiformibus, sparsis, pertusis; sporulis bacillaribus, subcontinuis, rectiusculis, 15–18 ≃ 1,5–1,7, hyalinis. 2701

Hab. in foliis Garryæ ellipticæ p. Toulouse Galliæ (Roumeguère).

149. **Septoria platanifolia** Cooke Rav. Fung. Amer. n. 27. Hedwigia 1878, p. 38. — Hypophylla; peritheciis numerosissimis, minutis, brunneis, semiimmersis, totam superficiem occupantibus; sporulis immaturis. 2702

Hab. in foliis Platani occidentalis, S. Carolina in America boreali.

150. **Septoria Letendreana** Sacc. Mich. I. p. 528. — Maculis subnul- 2703

lis vagisve; peritheciis gregariis hypophyllis, punctiformibus, globoso-lenticularibus, 60 μ. diam., late pertusis; sporulis bacillaribus, curvis, 18–25 ≃ 1½, parce guttulatis, hyalinis.

Hab. in foliis emortuis Juglandis regiæ, Rouen in Gallia (Letendre).

151. **Septoria Liquidambaris** C. et Ell. in Grevillea. — Epiphylla; maculis brunneis, suborbicularibus, minimis; peritheciis atrobrunneis, congestis; sporulis flexuosis, linearibus, 55–60 μ. longis. 2704

Hab. in foliis Liquidambaris in New Jersey Amer. bor.

152. **Septoria albaniensis** Thüm Botanical Gazette Oct. 1880. — Maculis in folii pagina superiore irregularibus, sæpe confluentibus, magnitudine variis, subarescentibus, ochraceis, zona subconcolori vel fusca marginatis, in pagina inferiore e contrario indeterminatis, ochraceo-griseis, obscurius cinctis; peritheciis hypophyllis, sparsis, punctiformi-sublenticularibus, atris, pertusis; sporulis bacillaribus minutis, vel cylindraceis, utrinque subrotundatis, curvulis, uniseptatis, hyalinis, 30–32 ≃ 2,5. 2705

Hab. in foliis vivis Salicis lucidæ, Albany New York (Peck). — A *Septoria salicicola* Sacc. et *Septoria Populi* Desm. sporularum magnitudine et a prima etiam septatione longe diversa.

153. **Septoria jenisseica** Thüm. Pilzfl. Sibir. n. 629. — Peritheciis hypo- raro etiam epiphyllis, magnis, paucis, gregariis, lenticulari-planis, semiimmersis, atro-fuscis, epidermide primo tectis in macula orbiculari, interdum confluenti, fusco-grisea, obscure et late griseo-marginata, in foliorum pagina superiore maculam fuscam v. fuligineo-fuscam marginatam efficientibus; sporulis numerosis, longe cylindraceis, valde curvatis, utrinque acutatis, uniseptatis, achrois, 60–66 ≃ 2,5–3. 2706

Hab. in foliis vivis Salicis speciei indeterminatæ in ins. fluvii Jenissei in Sibiria.

154. **Septoria didyma** Fuck. Symb. myc. p. 390. — Peritheciis in macula fusca, minutissimis, fuscis, vix prominulis; cirris albis vel dilute rosellis, punctiformibus, amorphis; sporulis oblongis, utrinque obtusis, curvatis, uniseptatis, hyalinis. 2707

Hab. in foliis Salicis triandræ, Œstrich Germaniæ.

155. **Septoria Caprææ** Westd. Bull. ac. roy. Belg. II. serie t. XI. n. 6. — Maculis epiphyllis, minutis, angulosis, eburneis, albidis, rufo-cinctis; peritheciis punctiformibus, sphæricis; sporulis cylindrico-fusiformibus, curvatis, 4-septatis, 4-nucleatis, hyalinis, 20–25 ≃ 2,5. 2708

Hab. in foliis vivis Salicis capreæ, Mons in Belgio et S. atrocinereæ, Coimbra Lusitaniæ. — Sec. Thümen, forma lusitanica præbet sporulas 40 ≃ 5–6; an ergo diversa species?

156. **Septoria salicina** Peck 25 Rep. p. 87. — Maculis suborbicularibus, brunneis centro aridis; peritheciis minutis brunneis, dein collabascendo pezizoideis; sporulis filiformibus, curvatis, longitudine varia, obscure septatis, 40–60 μ. longis. 2709

Hab. in foliis Salicis lucidæ, Keene in Amer. bor.

157. **Septoria Salicis** West., Kickx. Flor. Fl. I. p. 432. *Depazea salicicola.* Thüm. Mycoth. univ. n. 691 p. p. — Peritheciis minimis in maculis albis exaridis, vix ostiolo punctiformi atro emersis; sporulis filiformibus rectis vel curvis, continuis, nucleolatis 22–25 ≃ 1,7. 2710

Hab. in foliis Salicis amygdalinæ, Parma Ital. bor.

158. **Septoria salicicola** (Fr.) Sacc. Mich. I. p. 171. *Depazea salicicola* Fr. S. Myc. II. p. 530. — Maculis rotundatis, lacteis fusco-cinctis; peritheciis minimis sparsis, punctiformibus, convexis, nitidis, nigris; sporulis bacillaribus, curvulis, 40–50 ≃ $2^1/_2$–3, 3-septatis, hyalinis. 2711

Hab. in foliis Salicis cinereæ, S. viminalis etc. in Suecia, Italia, Austria, Sibiria, Gallia. — A *Sept. Salicis* West., *Sept. salicella* B. et Br. et a *Sept. didyma* Fuck. longe diversa. Verisimiliter huc spectat *Sept. Capreæ* West. in Kl. Herb. myc. II. n. 566.

159. **Septoria Populi** Desmz. 10 Not. 5, p. 11. *Sphæria frondicola* Fr. S. M. II. p. 529 p. p.?, *Septoria dealbata* Lév. p. p. — Epiphylla; maculis parvis, orbiculatis sparsis vel confluentibus, albis, exaridis in ambitu griseis, fusco-cinctis; peritheciis paucis, humidis convexis, pallidis, siccis plano-concavis, subnigris, ore orbiculari late apertis; sporulis bacillaribus, utrinque obtusiusculis, curvulis, 45 ≃ 3, 1-septatis, hyalinis. 2712

Hab. in foliis Populi nigræ in Belgio, Gallia, Italia, Lusitania, Britannia, Sibiria; et in foliis Pop. suaveolentis, Minussinsk in Rossia.

160. **Septoria ægirina** Pass. F. Parm. Sept. n. 118 et in Myc. univ. n. 595. — Peritheciis amphigenis, sparsis, nigris; sporulis filiformibus, longis, crassiusculis, curvis, intus parce nucleatis, integris, hyalinis, 25–38 ≃ $2^1/_2$. 2713

Hab. in foliis elapsis Populi nigræ, Parma in Ital. bor. — A *Depazea frondicola* Fr. et *Depazea tremulicola* De C. differt

sporulis multo longioribus et peritheciis per totius folii superficiem sparsis. — Adest forsan quoque *Sphærella* immatura.

161. **Septoria Tremulæ** Passer. in Rabh. Fung. eur. n. 1859, Hedwigia 1874, p. 186. — Maculis fuscis, indeterminatis, confluentibus; peritheciis hypophyllis, minutissimis fuscis, epidermide tectis; sporulis filiformibus tenuibus, flexuosis, continuis, 20–25 ≃ 1,5. 2714

Hab. in foliis Populi tremulæ, Collecchio Italiæ bor.

162. **Septoria candida** (Fuck.?) Sacc. Mich. I. p. 171. *Depazea candida* Fuck.? *Sept. Populi* f. *P. albæ* Mycoth. Ven. n. 540. — Maculis epiphyllis candidis; peritheciis punctiformibus, atris, sparsis; sporulis bacillaribus, 28–30 ≃ 2½, curvulis, 3-septatis, hyalinis. 2715

Hab. in foliis subvivis Populi albæ in Italia bor. et Germania. — *Dep. candida* in Thüm. F. A. n. 1191 sistit *Phyllosticlam populeam* Sacc. et *Ascochytam populinam* Sacc.

163. **Septoria Ostryæ** Peck 33 Rep. St. Mus. 25. — Maculis minutis, suborbicularibus, rubro-brunneis; peritheciis sparsis, centro macularum insidentibus, nigro-brunneis; sporulis linearibus, valde curvatis, indistincte septatis, hyalinis, 40–60 μ. longis. 2716

Hab. in foliis et squamis strobilorum Ostryæ virginicæ in montibus Helderberg Amer. bor.

164. **Septoria Avellanæ** B. et Br. Grevillea V. p. 56 et in Rabenh. F. E. n. 1958. — Hypophylla; peritheciis circinatis; sporulis fusiformibus, curvatis, 10 μ. longis. 2717

Hab. in foliorum subvivorum partibus aridis Coryli Avellanæ, Bathford in Anglia, Gorizia in Italia. bor.

165. **Septoria corylina** Peck 34 Rep. St. Mus. 44. — Maculis suborbicularibus, sparsis, brunneis vel rubro-brunneis, fusco-cinctis; peritheciis paucis, epiphyllis, minutis, nigro-brunneis, tumidis valde apertis; sporulis filiformibus, curvatis, hyalinis, 38–45 μ. longis. 2718

Hab. in foliis vivis Coryli rostratæ, Millerton Amer. bor.

166. **Septoria Fagi** Auersw. in Thüm. F. Austr. n. 1280. Sacc. Mich. II. p. 101. — Peritheciis ubique sparsis, epiphyllis, vix conspiciendis; sporulis filiformibus, vehementer curvatis, 40 ≃ 2, nubilosis, hyalinis. 2719

Hab. in foliis fagineis in Vogesis (Mougeot), in Austria (Thümen).

167. **Septoria Gilletiana** Sacc. Mich. I. p. 359. — Maculis nullis; peritheciis (spuriis) hypophyllis, hinc inde gregariis 100–110 μ. d., epidermide tumidula tectis; sporulis e strato proligero crassiusculo 2720

fasciculatim oriundis, filiformibus curvulis v. tortuosis, 30-45 = 1 $^3/_4$-2, utrinque obtusiusculis, 3-septatis, hyalinis.

Hab. in foliis nondum emortuis Castaneæ vescæ pr. Alençon in Gallia (C. C. Gillet). — A *Sept. castanicola* Desm. Sacc. Michelia II. 175 sporulis dimidio et ultra angustioribus etc. recedit.

168. **Septoria ochroleuca** B. et C. North Am. Fungi n. 438 et Peck 25 Rep. p. 88. — Maculis sparsis, suborbicularibus, pallidis, brunneo-marginatis; peritheciis centralibus, minutis, sparsis, hypophyllis, pallidis vel succineis dein collapsis; sporulis fusoideo-filiformibus, curvatis, continuis v. 1-septatis, 25 μ. longis. 2721

Hab. in foliis Castaneæ, Sandlake et New England Americæ borealis.

169. **Septoria Castaneæ** Lév. Ann. Sc. nat. 1846, p. 278. — Peritheciis hypophyllis minutissimis innatis intus albis, macula pallida arida insidentibus; sporulis linearibus utrinque obtusis, continuis, hyalinis. 2722

Hab. in foliis Castaneæ vescæ, Ville-d'Avray in Gallia et prope Gorizia.

170. **Septoria castanicola** Desm. in Ann. Sc.. natur. 1847, VIII. pag. 26. *Sept. Castaneæ* Lév.? Thüm. Herb. myc. n. 221. — Amphigena; maculis fuscis, indeterminatis; peritheciis hypophyllis, brunneo-nigris, minutis, numerosis, pertusis, 60-70 μ. diam.; sporulis cylindraceis, utrinque obtusiusculis, curvulis, 30-40 = 4,5, hyalinis, 3-septatis, in cirros albido-sordidos protrusis. 2723

Hab. in foliis vivis Castaneæ vescæ in Italia bor., Britannia, Gallia, Lusitania, Austria infer. — Spermogonium *Sphærellæ.*

171. **Septoria Quercus** Thüm. Contr. Myc. Lusit. n. 613. — Peritheciis hypophyllis, sparsis, lenticulari-applanatis, fuscis, semiimmersis, in maculis plus minusve orbiculatis, ochraceis, arescentibus, latissime ferrugineo-marginatis; sporulis acicularibus, utrinque acutatis, arcuatulis vel subrectis, uniseptatis, hyalinis, 15-16 = 1,5. 2724

Hab. ad folia viva Quercus pedunculatæ in montosis Matta d'Alcarraques pr. Coimbra Lusitaniæ (Moller).

172. **Septoria quercina** Desm. Not. XIV. p. 25 (1847). .— Amphigena; maculis minutis, paucis, rotundatis, albidis, exaridis, in ambitu late brunneis; peritheciis 1-3, minutissimis, innato-prominulis, nigris, poro pertusis; sporulis elongatis, filiformibus, curvulis, pluriguttulatis, hyalinis, 40 = 1,5-2. 2725

Hab. in foliis languescentibus Quercuum in Gallia, Italia,

Gorizia, Austria. — An *Sphæria quercicola* Wallr. huc spectet, non liquet.

173. **Septoria quercicola** Sacc. Mich. I. p. 174. *Septoria incondita* Rob. var. *quercicola* Desm. in Ann. Sc. natur. 1853, XX. p. 95, — Maculis variis, arescendo candicantibus; sporulis cylindraceis, curvulis, utrinque rotundatis, 25-30 ≃ 3-4, 3-septatis, non constrictis, hyalinis. 2726

Hab. in foliis Quercus pedunculatæ in Gallia et Italia bor. et in foliis Quercus humilis, Colimara Lusitaniæ (Moller). — Sporulæ *Sept. inconditæ* (= *S. castanicolæ* Desm.), sed maculæ diversæ.

174. **Septoria dryina** Cooke in Grev. XII. pag. 25. — Amphigena; maculis circularibus albis, minimis, rubro-cinctis; peritheciis paucis, punctiformibus, atris; sporulis linearibus, curvulis, pluri-nucleolatis, hyalinis, 50-60 ≃ 1,5. 2727

Hab. in foliis Quercus falcatæ in Carolina austr. Americæ borealis.

175. **Septoria Querceti** Thüm. Bot. Gaz. oct. 1880. — Peritheciis hypophyliis, numerosissimis, densissime gregariis, minutis, nitido-atris, immersis, epidermide pustulæformi tectis, postremo vix liberis, punctiformibus, maculas plus minusve suborbiculatas, translucentes efficientibus; sporulis numerosis, subrectis v. arcuatulis, cylindraceis, utrinque obtusatis, bi-quadriseptatis, multinucleatis, hyalinis, 18-22 ≃ 2,5-3. 2728

Hab. in foliis subvivis vel aridis Quercus tinctoriæ, Aiken Carolinæ australis (Ravenel).

176. **Septoria ocellata** (Lév.?) Sacc. Mich. II. p. 380. *Sphæropsis ocellata* Lév.? Ann. Scienc. nat. 1846, V. p. 297. — Peritheciis gregariis, globoso-lenticularibus, 150 μ. diam., pertusis, laxe celluloso-contextis, fuligineis; sporulis fasciculatis, tereti-fusoideis, curvulis, 20-25 ≃ 3, utrinque obtusiusculis, continuis, hyalinis sed coacervatis dilutissime olivaceis. 2729

Hab. in foliis emortuis Quercus pedunculatæ in M. Generoso, (Penzig) et in Gallia? (Léveillé).

177. **Septoria Betulæ** (Lib.) West. Sacc. Mich. I. p. 177. *Ascochyta Betulæ* Lib. — Maculis amphigenis, subcircularibus, minutis, pallide ochraceis; peritheciis lenticulari-punctiformibus; sporulis bacillaribus curvulis, 30-34 ≃ 1½, utrinque obtusiusculis, hyalinis. 2730

Hab. in foliis Betulæ albæ, Conegliano in Italia boreali (Spegazzini).

178. **Septoria betulina** Passer. Hb. *S. Belulæ* Passer. Prim. Elen. Funghi Parm. n. 52. Thüm. Fung. œconom. n. 242. — Maculis irregularibus, minutis griseis, mox confluentibus et exaridis; peritheciis hypophyllis, sparsis; sporulis filiformibus, curvis, 30–60 μ. long. spurie septatis. 2731

Hab. in foliis Betulæ albæ, Collecchio Parmæ in Italia bor.

179. **Septoria betulicola** Peck 34 Rep. St. Mus. p. 44. — Maculis minutis, confluentibus, angulosis, in pag. sup. rubro-brunneis, in pag. inf. pallidis; peritheciis hypophyllis, minutis, nigris; sporulis filiformibus, curvatis, hyalinis, 30–45 μ. longis. 2732

Hab. in foliis vivis Betulæ luteæ, Catskill mont. Americæ borealis.

180. **Septoria microsperma** Peck 34 Rep. St. Mus. 44. — Maculis indefinitis, brunneis, sæpe confluentibus; peritheciis hypophyllis, numerosis, minutis, irregularibus, brunneis, siccis rugosis, irregulariter fissis; sporulis allantoideis, hyalinis, 9–14 μ. longis. 2733

Hab. in foliis languidis Betulæ lentæ, Knowersille Am. bor.

181. **Septoria Alni** Sacc. Mich. I. p. 177. — Maculis subcircularibus, arescendo ochraceis, epiphyllis; peritheciis sparsis, punctiformibus; sporulis bacillaribus subclavulatisve, 30–35 ≃ $1^1/_2$–$2^1/_2$, remote guttulatis, hyalinis. 2734

Hab. in foliis languidis Alni glutinosæ, Conegliano in Italia boreali (Spegazzini).

182. **Septoria alnicola** Cooke Handb. pag. 451. — Maculis pallidis, brunneis vel fuscis, rotundatis, 5–7 mill. diam.; peritheciis minutis, sparsis, semiinnatis, nigris, pertusis; sporulis oblongis, rectis vel curvatis. 2735

Hab. in foliis vivis Alni glutinosæ in Britannia et Ital. bor.

183. **Septoria alnigena** Sacc. Mich. I. p. 178. — Maculis nullis; peritheciis punctiformibus hinc inde densiuscule congregatis, lenticularibus, atris; sporulis breve filiformibus, curvulis, utrinque acutiusculis, 20 ≃ $^3/_4$, continuis hyalinis. 2736

Hab. in pag. sup. foliorum vigentium Alni glutinosæ, Vittorio Ital. bor. — A *Sept. alnicola* Cooke Hndb. p. 451 sporulis filiformibus nec oblongis distinguenda — *Sept. alnicola* in Thüm. M. U. n. 693 aptius ad *Sept. Alni* Sacc. pertinere videtur.

184. **Septoria Pini** Fuck. Symb. p. 259. — Peritheciis immersis, in acervulos lineari-oblongos seriatis, per epidermidem demum erumpentibus; cirris candidis; sporulis oblongo-clavatis, 1-septatis, hyalinis. 2737

Hab. in foliis vivis Abietis excelsæ in Rhenogovia. — Spermogonium *Hypodermatis nervisequii*. Sec. J. Kühn huc spectat *Blennoria Abietis* Wallr., quam vero alii ad *Chrysomyxam Abietis* aptius forte referunt.

185. **Septoria acicola** (Thüm.) Sacc. *Cryptosporium acicolum* Thüm. Fung. Americ. trig. sp. n. 5, in Flora 1878, pag. 178. — Peritheciis parvulis, gregariis, plus minusve lineari-dispositis, tectis punctiformibus, subglobosis, atris; sporulis cylindricis, curvato-lunulatis, utrinque subangustatis et rotundatis, simplicibus, numerosissimis, pallide fusco-griseis, 27 ≃ 3,5-4. 2738

Hab. in foliis aridis Pini variabilis, Aiken in Carolina australi.

186. **Septoria Podocarpi** Thüm. F. Austro-Afr. n. 125. — Peritheciis solitariis, prominulis, semiimmersis, globulosis, submagnis, nigris, in maculis irregularibus, cinereo-exaridis, angustissime fusco-marginatis; sporulis numerosis, cylindraceis vel ellipsoideo-cylindricis, utrinque rotundatis et leniter angustatis, rectis, uniseptatis, vel simplicibus, achrois, 5-7 ≃ 1,5-2,5. 2739

Hab. in foliis vivis Podocarpi Thunbergii, Grahamstown Promont. bonæ spei (Mac-Owan).

187. **Septoria boninensis** Berk et C. North Pac. expl. n. 126. — Peritheciis minutis epidermide nigrificata polita ocellata tectis; sporulis rectis, mediis, filiformibus, curvulis. 2740

Hab. in petiolis folii cujusdam ignoti in insula Bonin.

188. **Septoria variegata** Vize Grevillea II. p. 14. — Epiphylla; maculis brunneis, griseis vel pallidis; peritheciis minutis, immersis, cæspitosis; sporulis minutis, linearibus, hyalinis, 50 μ. longis. 2741

Hab. in foliis coriaceis in India orient.

189. **Septoria albo-nigra** B. et C. North Americ. Fungi n. 434 bis. — Maculis albis, fusco-annulatis; peritheciis minimis; sporulis filiformibus, 55 μ. longis. 2742

Hab. in foliis vivis, Alabama Amer. bor.

190. **Septoria recta** B. et C. North Americ. Fungi n. 448. — Peritheciis nitidis totam superficiem occupantibus; sporulis rectis linearibus, utrinque acutiusculis, 25 μ. longis. 2743

Hab. in foliis coriaceis emortuis in Carolina inf. Amer. bor.

191. **Septoria macularis** Lév. Ann. Sc. nat. 1846, p. 278. — Peritheciis adnatis, gregariis, epiphyllis, punctiformibus, nigris, macula nigra insidentibus; ostiolis inconspicuis; sporulis elongatis filiformibus, utrinque obtusis, continuis, hyalinis. 2744

Hab. ad folia in Chili.

192. **Septoria olivacea** B. et C. Cub. Fungi n. 568. — Sporulis elongatis curvatis, utrinque obtusis, bi-triseptatis. 2745

Hab. in pag. inf. foliorum in insula Cuba.

§§ *In plantis herbaceis.*

193. **Septoria compta** Sacc. Mich. I. p. 93, F. ital. t. 89. — Maculis arescendo ochraceis, angulosis; peritheciis immersis, globulosis, 130 μ. diam., ferrugineis, ostiolo obtuso latiuscule hiantibus; sporulis cylindraceis curvulis, 20-25 ≃ 5, utrinque obtusiusculis, 3-5-septatis, ad septa constrictis, hyalinis, denique in cirrum albidum protrusis. 2746

Hab. in foliis languidis Trifolii alpestris, Selva in Italia bor., et in foliis Trifolii incarnati, Coimbra Lusitaniæ.

194. **Septoria Medicaginis** Rob. et Desm. 14 Not. bot. p. 24. — Maculis amphigenis, subrotundatis vel irregularibus, albidis in ambitu fuscis; peritheciis innatis, hypophyllis, pallidis, depressis, ore orbiculari apertis; cirris ochroleucis; sporulis cylindricis utrinque obtusis, subhyalinis, 7-9-guttatis, 20 ≃ 3. 2747

Hab. in foliis languescentibus Medicaginis sativæ in Ital. bor. et Gallia.

195. **Septoria Astragali** Desm. Ann. Sc. nat. 1843, XIX. p. 345. — Epiphylla; maculis irregularibus, griseo-viridibus, dein fuscis; peritheciis paucis, globosis, prominulis, nigris, poro dilatato apertis; sporulis filiformibus, tortuosis, prælongis, 120 ≃ 3, 9-10-septatis, hyalinis. 2748

Hab. in foliis Astragali Glycyphylli in Italia, Gallia, Britannia, Belgio, Germania. — Adest forma (an parum evoluta?) sporulis minus longis obsoleteque septatis.

196. **Septoria Baptisiæ** Cooke in Rav. F. Amer. n. 30, Hedwigia 1878, p. 38. — Epiphylla; maculis suborbicularibus, purpurascentibus; peritheciis parce inspersis, immersis; sporulis linearibus rectis vel curvulis, nucleatis, 40-50 μ. longis. 2749

Hab. in foliis Baptisiæ in Carolina austr. (Ravenel).

197. **Septoria Hosackiæ** Harkn. F. Calif. p. 11. — Peritheciis minutis, amphigenis; sporulis filiformibus, flexuosis, hyalinis, 3-7-septatis, 64 ≃ 4; maculis irregularibus, fusco-flaventibus. 2750

Hab. in foliis vivis Hosackiæ strigosæ, Antioch Californiæ.

198. **Septoria Lupini** Harkn. Calif. F. p. 11. — Epiphylla; maculis indeterminatis, flaventibus, subinde tota foliola occupantibus; pe- 2751

ritheciis minute papillatis; sporulis linearibus, utrinque acutis, obscure septulatis, 40–60 ≃ 4–5.

Hab. in foliis vivis Lupini densiflori, Tamalpais Californiæ.

199. **Septoria sojina** Thüm. Symb. Myc. Austr. III. n. 63. — Peritheciis epiphyllis sparsis, parvis, conico-globulosis, emersis, atris in macula determinata, irregulari, arescendo flavente, anguste fusco-purpurascente-marginata; sporulis cylindraceis vel subcuneatis, rectis 1-septatis, deorsum subacutis, apice obtuse rotundatis, grosse 2–4-nucleatis, hyalinis 12–18(sæpius 14) ≃ 4,5–5. 2752

Hab. ad folia viva vel languida Sojæ hispidæ, S. Michele Tiroliæ et Rubbia prope Gorizia.

200. **Septoria Melanophthalmi** B. et C. North Amer. Fungi n. 450. — Maculis pallidis, margine late rufo circumdatis; sporulis allantoideis vel flexuosis brevibus, 2–3-nucleatis. 2753

Hab. in foliis Dolichi melanophthalmi, in Carolina superiore Americæ bor.

201. **Septoria Dolichi** B. et C. North Amer. Fungi n. 449bis. — Maculis albis, margine lato flavo cinctis; sporulis rectis subfusiformibus triseptatis, 40 μ, longis. 2754

Hab. in foliis Dolichi in Carolina inferiore Americæ bor.

202. **Septoria Pisi** West. Bul. ac. roy. belg. Ser. II. t. XII. n. 7. — Maculis amphigenis, irregularibus, latis, elongatis, venulis foliorum limitatis, albidis vel brunneo-pallidis; peritheciis luteo-brunneis, dein nigris, sparsis; cirris luteo-aurantiacis; sporulis cylindricis, rectis, 40 ≃ 3–3,3. 2755

Hab. in foliis Pisi sativi, Namur Belgii.

203. **Septoria Viciæ** West. Exs. n. 1151, Pass. F. Parm. Sept. n. 34. — Maculis expallentibus, fusco-marginatis; peritheciis punctiformi-lenticularibus; sporulis tenuibus, rectiusculis, integris, multinucleolatis, hyalinis, longitudine variis, 30–60 ≃ 2,5. 2756

Hab. in foliis Viciæ sativæ, Parma Italiæ bor.

204. **Septoria orobina** Sacc. Mich. I. p. 187. — Maculis irregularibus arescendo subochraceis, atrocinctis; peritheciis remotis, punctiformibus, lenticularibus poro pertusis; sporulis filiformibus, flexuosis, 30 ≃ $^3/_4$, eguttulatis, hyalinis. 2757

Hab. in foliis Orobi verni in silva Montello Italiæ bor.

205. **Septoria orobicola** Sacc. Mich. I. p. 187. — Maculis et peritheciis *Septoriæ orobinæ* similibus; sporulis bacillaribus, 60–70 ≃ 2–3, rectiusculis, utrinque obtusis, obsolete septulatis, hyalinis. 2758

Hab. in foliis Orobi verni, Conegliano Ital. bor., Neuchâtel Helvetiæ, et Orobi variegati prope Parma.

206. **Septoria fulvescens** Sacc. Mich. I. p. 191. — Maculis amphigenis versiformibus, confluentibus, fulvo-melleis, margine sinuoso concolori; peritheciis amphigenis, globuloso-prominulis, punctiformibus, ochraceis; sporulis bacillaribus, 50–60 ≃ 3, dense fasciculatis, utrinque obtusiusculis, leniter curvatis, 3–5-septulatis, hyalinis. 2759

Hab. in foliis Lathyri silvestris in silva Montello, Treviso Ital. bor. — Species prædistincta et, ut videtur, rarissima sed ob perithecia fulvo-mellea a typo desciscens et ad Nectrioideas vergens.

207. **Septoria silvestris** Pass. F. Parm. Sept. n. 37. — Maculis nullis vel pallidis, tandem evanidis, nervis venisque limitatis; peritheciis pallidis, tectis, cirros albidos ejicientibus, sparsis, demum atris; sporulis bacillaribus, rectis, integris, hyalinis, 30–50 ≃ 3. 2760

Hab. in foliis Lathyri silvestris, Vigheffio Italiæ bor.

208. **Septoria emaculata** Peck et C. Rep. on the St. Mus. N. York. — Peritheciis latis, sparsis, prominulis, nigris; sporulis filiformibus, curvatis vel flexuosis, nucleolatis, 50–87 μ. longis. 2761

Hab. in foliis vivis et leguminibus Lathyri palustris, Buffalo Amer. bor.

209. **Septoria stipularis** Pass. F. Parm. Sept. n. 36. — Peritheciis amphigenis in maculis fuscis primo marginantibus, mox stipulam totam invadentibus, aggregatis, punctiformibus, castaneo-fuscis, membranaceis; sporulis bacillaribus, subrectis, integris, achrois, apicibus rotundatis, endoplasmate opaco, granuloso, 25–38 ≃ 2,5–3. 2762

Hab. in stipulis Lathyri Aphacæ, Parma Italiæ bor.

210. **Septoria Gei** Rob. et Desm. in Ann. Sc. nat. 1843, XIX. p. 343. — Maculis orbicularibus vel irregularibus brunneo-ochraceis, dein centro cinereis aridisque fusco-limbatis; peritheciis epiphyllis numerosis, brunneo-nigris, hemisphæricis, dein collapsis; sporulis filiformibus, utrinque acutis, 30 ≃ 1,5, continuis, hyalinis, nubilosis. 2763

Hab. in foliis vivis languidisve Gei urbani in Italia, Britannia, Gallia, Belgio; et in foliis vivis Gei biflori in Lusitania.

211. **Septoria potentillica** Thüm. Pilzfl. Sibir. n. 627. — Peritheciis epiphyllis, dense gregariis sed non numerosis, punctiformi-conoideis, minutis, atris in macula parva, orbiculari, ochracea, late purpureo-marginata, subtus dilute ochroleuca; sporulis numerosis, subrectis v. leniter arcuatis, utrinque subobtusis, continuis, achrois, 32–40 ≃ 2,5–3. 2764

Hab. in foliis vivis Potentillæ fragarioidis in silvis prope lacum Kysykul in Sibiria asiatica.

212. **Septoria sparsa** Fuck. Symb. Mycol. p. 390. — Peritheciis globosis, majusculis, 1-4 in maculis fuscis, erumpentibus, atris, ostiolo papilliformi, demum depressis; sporulis simplicibus, anguste filiformibus, rectis, multiguttulatis, utrinque acuminatis, hyalinis, 50 ≃ 1,5. 2765

Hab. in foliis Potentillæ reptantis in Germania et Italia.

213. **Septoria Tormentillæ** Desm. et Rob. XIV. Not. p. 22. — Maculis irregularibus, sæpius oblongis, albidis, roseo-cinctis, dein haud marginatis; peritheciis plurimis; sporulis filiformibus, curvis vel flexuosis, continuis hyalinis, 45-55 μ. longis. 2766

Hab. in foliis Tormentillæ erectæ et Potentillæ reptantis in Gallia, Italia et Belgio.

214. **Septoria Fragariæ** Desm. Observ. Bot. et Zool. I. n. 7, p. 11, *Ascochyta Fragariæ* Lib. — Epiphylla; maculis suborbiculatis, fuscis, in ambitu brunneo-rubris; peritheciis minutissimis, innato-prominulis, fusco-fuligineis, ore orbiculari late apertis; cirris albidis; sporulis cylindraceis, utrinque obtusis, 3-septatis, hyalinis. 2767

Hab. in foliis languescentibus Fragariæ vescæ, Fr. chilensis, Potentillæ fragarioidis, P. opacæ in Italia, Belgio, Gallia, Rossia, Sibiria asiatica.

215. **Septoria aciculosa** Ell. et Everhart in litt. ad me. — Peritheciis innatis subsuperficialibus congregatis, minutis, in utraque pagina folii; sporulis acicularibus continuis, 15-20 ≃ ¾. 2768

Hab. in foliis Fragariæ cultæ, Illinois in Amer. bor. (F. S. Earle).

216. **Septoria Waldsteiniæ** P. et C. Rep. on the St. Mus. N. York. — Maculis minutis, inæqualibus, suborbicularibus, aridis, purpureo-brunneo- vel nigro-marginatis; peritheciis minutis, paucis, epiphyllis, nigris; sporulis rectis 25 μ. longis. 2769

Hab. in foliis Waldsteiniæ fragarioidis, Portage, Helderberg Moutains Amer. bor.

217. **Septoria Arunci** Pass. F. Parm. Sept. n. 48. — Peritheciis solitariis vel paucis, nigris, nitidis, in maculis exaridis, albidis, atro-sanguineo-areolatis; sporulis cylindricis rectis vel arcuatis, integris, obscure nucleolatis, 20-25 ≃ 2½. 2770

Hab. in foliis Spirææ Arunci, Cisa in Apennino parmensi.

218. **Septoria Ulmariæ** Oud. Fl. myc. Nederland, pag. 3. — Maculis plurimis sparsis nigris, centro pallidioribus, subrotundis, in utraque folii pagina manifestis; peritheciis minutissimis, in macularum sub- 2771

stantia immersis, nudo oculo vix visibilibus, ex unico cellularum strato formatis, tandem poro minuto apertis; sporulis cylindraceis, utrinque obtusis, flexuosis, hyalinis, continuis, 50 ≃ 2,5.

Hab. in foliis Spirææ Ulmariæ, Halfweg Hollandiæ.

219. **Septoria quevillensis** Sacc. Mich. I. p. 527. (*S. Ulmariæ*). — 2772
Maculis epiphyllis minutis, atro-sanguineis, dein centro expallentibus; peritheciis lenticularibus, 60-80 μ. d., late apertis, denique folia punctato-perforantibus, contextu cellulari, melleo; sporulis bacillaribus curvulis, pluriguttulatis, 30-40 ≃ 1-1½, hyalinis.

Hab. in pag. sup. foliorum Spirææ Ulmariæ prope Rouen Galliæ (Letendre).

220. **Septoria Brissaceana** Sacc. et Let. Sacc. Mich. II. p. 625 (1882). 2773
— Maculis minutis subochraceis, atro-marginatis; peritheciis epiphyllis, punctiformibus, nigricantibus, minute pertusis; sporulis filiformibus, utrinque attenuatis, flexuosis vel curvulis, continuis, guttulatis, 28-36 ≃ 1-1,5, hyalinis.

Hab. in foliis languidis Lythri Salicariæ prope Rouen Galliæ (Letendre).

221. **Septoria lythrina** Peck 33 Rep. St. Mus. 25 (1880). — Maculis 2774
suborbicularibus vel irregularibus, griseo-brunneis, sæpe nigro-cinctis; peritheciis minutis, epiphyllis, rariter amphigenis, nigris; sporulis filiformibus, curvulis, 20-40 μ. longis.

Hab. in foliis vivis Lythri Salicariæ, Newburg Amer. bor. — Forte non satis diversa a *S. Brissaceana.*

222. **Septoria Ludwigiæ** Cooke in Grev. et n. 33 Rep. on the St. Mus. 2775
N. Y. — Epiphylla; maculis exaridis, rubro-cinctis; peritheciis paucis, punctiformibus, 5-8, gregariis; sporulis linearibus, obtusis, multinucleatis flexuosis, hyalinis, 40 μ. longis.

Hab. in foliis Ludwigiæ, Aiken, Sud Carolina, et Ludwigiæ palustris, Charlton Amer. bor.

223. **Septoria Platensis** Speg. Pug. Arg. I. p. 189. — Maculis mi- 2776
nutis, orbicularibus, determinatis, candidis, 1-1,5 mill. diam., areola purpurascenti cinctis; peritheciis solitariis, rarius 2-5 gregariis, centro macularum insidentibus, lenticulari-hemisphæricis, atris, minutis, 90-100 μ. diam., contextu membranaceo, fuligineo-olivaceo, ostiolo latiusculo donatis; sporulis cylindraceis, rectis vel flexuosis, apicem versus subattenuatis, hyalinis, 12-18 ≃ 1-1,5, 1-(an posterius 3?)-septatis.

Hab. in foliis vivis vel languidis Jussiææ longifoliæ in paludosis secus Rio de la Plata a la Recoleta Argentinæ.

224. **Septoria obsidionis** Speg. F. Argent. Pug. II. n. 111. — Maculis epiphyllis 1-3 mill. diam., orbicularibus, albis, arescentibus, quandoque confluentibus, areola lata purpurascente cinctis; peritheciis paucis, minutis, lenticularibus, ostiolo minuto pertusis, 70-90 μ. d., membranaceis, contextu fulvo-olivaceo; sporulis filiformibus 20-30 ≃ 1, inferne obtuse angulato-curvatis, hyalinis. 2777

Hab. ad folia viva Jussiææ longifoliæ in paludosis prope la Recoleta. — Cum *Septoria platensi* Speg. non comparanda, etsi habitu simillima.

225. **Septoria Fuchsiæ** Roum. F. Gall. n. 228. — Peritheciis epiphyllis, punctiformibus, parcis, atris in maculis irregulari-subrotundis pallidis, brunneo-marginatis insertis; sporulis linearibus, flexuosis, septulatis, hyalinis. 2778

Hab. in foliis Fuchsiæ coccineæ, Montauban Galliæ.

226. **Septoria maculosa** Lév. in Roum. F. Gall. n. 416. — Maculis expallentibus nigro-marginatis; peritheciis subgregariis, punctiformibus, atris; sporulis bacillaribus curvulis, 15-20 ≃ 1½, nubilosis. 2779

Hab. in foliis languidis Cynanchi erecti, Angers Galliæ (Guepin). — *Septoria maculosa* Gérard, in Peck Reports citata, et in foliis Cuphææ viscosissimæ in Poughkeepsie Amer. bor. lecta, verisimiliter diversa est, at mihi ignota.

227. **Septoria Chamænerii** Pass. F. Parm. Sept. n. 54. — Maculis oblongis rubro-cinctis; peritheciis punctiformibus, nigris, utrinque perspicuis; sporulis bacillaribus rectis, apicibus rotundatis, septulatis, 20-25 ≃ 2,5-3. 2780

Hab. in foliis Epilobii parviflori, Collecchio in Italia bor.

228. **Septoria Epilobii** West. in Bull. Acad. Bruxelles 1852, XIX, 3, p. 120. — Maculis olivaceis, irregularibus vel angulosis, foliorum venulis limitatis vel confluentibus; peritheciis amphigenis, minutis, brunneis, pertusis; cirris albis exilibus; sporulis filiformibus, rectis vel curvatis, parce obsoleteque septatis, hyalinis, 50 ≃ 1,5. 2781

Hab. in foliis vivis Epilobii montani, E. hirsuti, E. parviflori, E. flaccidi, E. angustifolii, E. palustris in tota Europa et in Sibiria asiatica.

229. **Septoria Œnotheræ** West. Bul. ac. roy. belg. Ser. II. t. XII. n. 7. *Depazea Œnotheræ* Lasch. — Maculis epiphyllis, rotundatis, minutis, initio subviridibus dein brunneis, rubro-vinosis cinctis; peritheciis nigris, punctiformibus, in centro macularum aggregatis; sporulis filiformibus curvulis, hyalinis, minute pluri-guttulatis, 35-40 ≃ 1,5-1,7. 2782

Hab. in foliis Œnotheræ biennis, Œ. sinuatæ in Belgio, Italia et Amer. boreali.

230. **Septoria Nolitangere** Thüm. F. Kirgh. in N. Giorn. Bot. Ital., 2783
n. XII. — Peritheciis minutissimis, oculo nudo vix visibilibus, globoso-conicis, subimmersis, atris, sparsis, epi- raro hypophyllis in maculis irregularibus, arescendo ochraceo-albidis, mox laceratis, late violaceo-cinctis; sporulis bacillaribus, rectis, simplicibus (an semper?), utrinque obtusis, enucleatis, achrois, 8–12 ≃ 1,5.

Hab. in foliis vivis Impatientis Nolitangere, Sarmanajewa (Orenburg) Rossiæ. — Fortasse huc spectat *Depazea Impatientis* Kirchn. in Lotos, mihi ignota.

231. **Septoria Balsaminæ** Pass. F. Parm. Sept. n. 25. — Maculis or- 2784
bicularibus exaridis margine incrassatis; peritheciis solitariis vel paucis punctiformibus, atris; sporulis bacillaribus strictis vel vix curvis, apicibus obtusis, triseptatis, loculis nucleolatis, 30–35 ≃ $2^1/_2$–3, hyalinis.

Hab. in foliis languidis Balsaminæ hortensis, Parma Italiæ borealis.

232. **Septoria Geranii** Rob. et Desm. Ann. Sc. nat. Bot. 1853, XX. 2785
p. 93. — Epi- rarius hypophylla; maculis irregularibus, olivaceo-brunneis, late purpureo-cinctis; peritheciis innatis, minutissimis, pallidis, poro simplici pertusis; cirris aureis; sporulis filiformibus, 35-50 ≃ 1, indistincte septulatis, hyalinis.

Hab. in foliis Geranii Robertiani, G. mollis, G. pusilli etc. in Gallia, Italia.

233. **Septoria expansa** Niessl, Hedwigia 1883, p. 15. — Hypophylla; 2786
maculis indeterminatis, valde expansis gilvis vel subochraceis; peritheciis disseminatis, majusculis, semiimmersis, vertice dehiscentibus; cirris rubescentibus; sporulis filiformibus curvulis, 50–60 ≃ 1, hyalinis pluriguttulatis et indistincte septatis.

Hab. in foliis Geranii dissecti, quæ subinde omnino occupat, Brünn in Moravia (Niessl).

234. **Septoria Dictamni** Fuck. En. Fung. Nass. n. 330. — Peritheciis 2787
in macula discolori punctiformibus atris; cirris sordidis; sporulis bacillaribus, utrinque obtusiusculis, 90 ≃ $3^1/_2$–4, leniter curvulis, 4-septatis, hyalinis.

Hab. in foliis languidis Dictamni albi in Germania, Italia bor. et agro tergestino. — *Depazea Dictamni* Rabenh. in Bot. Zeit. 1851, p. 455 forte non differt; ibi enim parum accurate descripta videtur.

235. **Septoria bractearum** Mont. Ann. Sc. nat. 1849, p. 49, *Rhabdospora bractearum* Mont. Syll. crypt. p. 277. — Amphigena; perithecis innatis, perexiguis, globosis, fuscis, tectis poroque pertusis, in maculas rufidulas sparsis aut congregatis; sporulis linearibus, rectis aut incurvis, 50 × 2, pluri-guttulatis, hyalinis. 2788

Hab. in bracteis Euphorbiæ serratæ, Montaud-les-Miramas Galliæ (Castagne).

236. **Septoria Kalchbrenneri** Sacc. *Septoria Euphorbiæ* Kalchbr. in Hedwigia 1865, p. 158, nec Guep. — Peritheciis punctiformibus, atris, in maculis expallentibus, sæpius atro-marginatis; sporulis tenuissimis, flexuosis, granulosis. 2789

Hab. in foliis subvivis Euphorbiæ silvaticæ in montibus Carpathiis, E. palustris et E. asperæ in horto berolinensi.

237. **Septoria Euphorbiæ** Guep. in Roum. F. Gall. n. 521, Sacc. Mich. II. p. 346. — Maculis amphigenis, subcircularibus minutis, sordide olivaceis; peritheciis numerosis, punctiformibus, late hiantibus; sporulis acicularibus sursum attenuatis 40-45 × 2-2½, obsolete 3-4-septatis, hyalinis. 2790

Hab. in foliis languidis Euphorbiæ Esulæ et angulatæ in Vogesis Galliæ (Mougeot).

238. **Septoria Hyperici** Desm. Ann. Sc. nat. 1842, p. 110, Kickx Fl. Flandr. I. p. 429. — Epiphylla; maculis orbicularibus, oblongis vel indeterminatis, rufo-brunneis, luteo-marginatis; peritheciis minutis, brunneis, prominulis; cirris luteo-stramineis; sporulis linearibus, rectis, 30-50 μ. long., minute 8-16-nucleolatis. 2791

Hab. in foliis Hyperici hirsuti, H. perforati in Italia, Belgio, Britannia. — β. **Elodis** West. exs. fasc. 24, n. 1153: peritheciis obscurioribus, sæpe hypophyllis, poro minuto dehiscentibus; maculis brunneo-nigris, cirris rubro-pallidis. In foliis Hyperici elodis in Belgio.

239. **Septoria Lachastreana** Sacc. et Let., Sacc. Mich. II. p. 625. — Maculis minutis dealbatis, fusco-marginatis; peritheciis epiphyllis perexiguis, globulosis, parcis, pertusis, 70 μ. diam.; sporulis bacillaribus tenuiter 3-septatis, 36-50 × 1,5, rectis vel curvulis, hyalinis. 2792

Hab. in foliis languidis Althææ officinalis prope Rouen Galliæ (Letendre).

240. **Septoria? Althææ** Thüm. F. Austr. n. 995. — Peritheciis minutis, semiimmersis, atris, subglobosis, in circulum dispositis, in maculis exaridis, pallide-brunneis. 2793

Hab. in foliis vivis vel languidis Althææ roseæ, Tetschen Bohemiæ septentr. — Dubia, nam sporulæ indescriptæ.

241. **Septoria gossypina** Cooke in Grev. XII. p. 25. — Maculis epiphyllis, albidis, irregularibus, purpureo-cinctis; perithecis punctiformibus, centralibus, atris, semiinnatis; sporulis linearibus, hyalinis, 50 × 1. 2794

Hab. in foliis Gossypii in Carolina austr. Amer. bor.

242. **Septoria Carthusianorum** West. Bull. ac. roy. belg. Ser. II. t. XII. n. 7. — Maculis roseis vel luteo-croceis, irregularibus, latis et confluentibus; perithecis fusco-brunneis, numerosis, immersis, dein prominentibus liberis; cirris roseo-carneis; sporulis cylindricis, rectis vel flexuosis, utrinque obtusis, 5–7-nucleatis, hyalinis, 20–30 × 2. 2795

Hab. in calycibus Dianthi Carthusianorum, Courtrai in Belgio (Westendorp).

243. **Septoria Dianthi** Desm. 17 Not. 6, p. 20. — Maculis luteolis, oblongis, rotundis vel irregularibus; perithecis globoso-depressis, nigro-fuscis, poro apertis; cirris albidis; sporulis elongatis, cylindricis, curvulis, utrinque obtusis, 30–45 × 4, obsolete 4-nucleatis. 2796

Hab. in foliis Dianthi barbati, D. Armeriæ, D. Saxifragi in Italia, Gallia, Lusitania, Sibiria.

244. **Septoria Saponariæ** (DC.) Savi et Becc. Erb. cr. ital. n. 882, Fungi Ven. Ser. V. n. 205, *Septoria Dianthi* β. *Saponariæ* Desm., *Depazea Saponariæ* DC. Fl. Fr. VI. p. 147. — Maculis rotundis vel irregularibus; perithecis globoso-depressis, fuscis; sporulis cylindraceis, curvulis, 40–50 × $3^1/_2$–$4^1/_2$, utrinque obtusis, 4–5-nucleatis, hyalinis. 2797

Hab. in foliis Saponariæ officinalis et Silenes inflatæ in Italia, Gallia et Germania.

245. **Septoria silenicola** Ell. et Mart. Amer. Nat. 1882, p. 1001 (*Sept. Silenes*). — Maculis minutis, subluteis; perithecis luteo-brunneis, delicatis, innatis, sparsis, 56 μ. diam.; sporulis luteo-hyalinis, cylindraceis, curvatis, 3-septatis, 48 × 3. 2798

Hab. in foliis vivis Silenes stellatæ, Chester Co. Pensylvaniæ.

246. **Septoria Silenes** West. Bull. ac roy. b. Ser. II. tab. XII. n. 7 et Exsicc. n. 955. — Maculis rotundatis, confluentibus, pallide brunneis, latis; perithecis minutissimis, nigris, semiimmersis; sporulis cylindricis, 17–20 × 2,5. 2799

Hab. in pag. super. foliorum Silenes Armeriæ, Beverloo Belgii (Westendorp).

247. **Septoria dimera** Sacc. Mich. II. p. 102. — Maculis vagis, majusculis, sordide ochraceis; peritheciis crebris, minutissimis, vix $^1/_{12}$ mill. diam., lenticularibus, nigricantibus, sæpius epiphyllis; sporulis cylindraceis crassiusculis, 28–32 ≃ 4, utrinque obtusis, leniter curvis, 1-septatis, hyalinis. 2800

Hab. in foliis languidis Silenes nutantis, Saintes Galliæ (Brunaud). — A *S. Saponariæ* (DC.) satis superque distincta.

248. **Septoria dianthicola** Sacc. Mich. I. p. 191. — Maculis nullis; peritheciis hinc inde dense congregatis, punctiformibus, atris; sporulis bacillaribus, curvulis, 15–20 ≃ 1, continuis eguttulatis, hyalinis. 2801

Hab. in foliis Dianthi barbati in silva Montello, Treviso Ital. bor.; in foliis Dianthi Caryophylli, Coimbra Lusitaniæ (Moller). — Cum *Sept. Dianthi* Desm. nil commune habet.

249. **Septoria Sinarum** Speg. Nov. Add. p. 165, Sacc. Mich. II. p. 279. — Maculis albidis, circularibus, majusculis, sæpe totum folium occupantibus; peritheciis amphigenis, gregariis, totam maculam tegentibus, globoso-lenticularibus, minutis, 80–110 μ. diam., poro parvulo pertusis, contextu parenchymatico-membranaceo, fuligineo-olivaceo; sporulis acicularibus, rectis vel curvulis, utrinque acutiuscule rotundatis, 1-2-septatis, ad septa plus minusve constrictis, hyalinis, 20–25 ≃ 2-2$^1/_2$. 2802

Hab. ad folia viva vel languida Dianthi sinensis in hortis, Belluno Ital. bor. vulgatissima.

250. **Septoria calycina** Kickx Fl. cr. Fl. I. p. 426. — Peritheciis magnis, brunneo-fuscis dein nigris, amphigenis, innatis prominulis, epidermidem roseam dein luteo-croceam perforantibus; sporulis cylindricis, rectis vel curvatis, utrinque obtusis vel subito attenuatis, 5–7 nucleatis, hyalinis; cirris roseo-pallidis. 2803

Hab. in calycibus Dianthi Carthusianorum, Courtrai in Belgio.

251. **Septoria Lychnidis** Desm. 17 Not. 6, p. 21, Lasch in Kl. Herb. Myc. n. 1683. — Maculis amphigenis, irregularibus, brunneo-rubris vel pallide rufis; peritheciis globoso-lenticularibus, innatis fusco-nigricantibus, poro late apertis; sporulis longissimis, linearibus, rectis vel curvatis, 50–70 ≃ 2,5–3, 5–7-septatis, utrinque obtusiusculis, hyalinis. 2804

Hab. in foliis Lychnidis dioicæ in Gallia et Italia bor.

252. **Septoria Melandrii** Pass. F. Parm. Sept. n. 11. — Maculis sub- 2805

rotundis, exaridis, rubiginosis, area fusca effusa cinctis; peritheciis immersis, badiis, luce transversa tantum perspicuis; sporulis filiformibus, rectis vel flexuosis, integris, obscure nucleolatis, 40–60 ≃ 2,5.

Hab. in foliis Lychnidis vespertinæ, L. diurnæ in agro parmensi Italiæ bor.

253. **Septoria Stellariæ** Rob. et Desm. Not. XIV. p. 22. — Amphigena; maculis albidis minutis dein confluentibus; peritheciis minutissimis, fuscis, poro apertis; sporulis bacillaribus, curvulis, 50–60 ≃ 1, indistincte septulatis, hyalinis. 2806

Hab. in foliis languescentibus Stellariæ mediæ, St. cerastioidis in Gallia, Italia et Sibiria asiatica.

254. **Septoria Stellariæ-nemorosæ** Roum. Revue Myc. 1882, p. 99, F. G. n. 2033. — Maculis elongatis, venulis foliorum limitatis; peritheciis distinctis; sporulis ovalibus, 70–90 ≃ 35–45 («an potius 7–9 ≃ 3,5–4,5?»). 2807

Hab. in pag. sup. foliorum Stellariæ nemorum, Malmedy. — «Potius *Phyllosticta*».

255. **Septoria Cerastii** Rob. et Desm. XVII. Not. p. 21, Kickx Fl. I. p. 435, Sacc. Mich. I. p. 260. — Maculis luteo-pallidis dein griseo-cinereis; peritheciis amphigenis vel caulicolis, in centro maculæ sitis, globoso-lenticularibus, nigris, poro pertusis, 80 μ. diam.; sporulis bacillaribus, 30–40 ≃ 1, rectis vel lenissime curvis, obsolete guttulatis, hyalinis; cirris minutis albis. 2808

Hab. in foliis caulibusque languentibus Cerastii vulgati, C. trivialis in Belgio, Ital. bor. et Gallia.

256. **Septoria Spergulæ** West. Bull. ac. r. Belg. II. ser. t. XII. n. 7, et Exsicc. n. 1155. — Maculis nullis; peritheciis punctiformibus, nigris, ubique dense sparsis; sporulis cylindricis, rectis vel curvatis, 30 ≃ 2–2,5. 2809

Hab. in foliis et caulibus Spergulæ arvensis, Beverloo in Belgio (Tosquinet).

257. **Septoria Scleranthi** Desm. 24 Not. 1857, p. 9. — Maculis obliteratis; peritheciis dense sparsis, innato-prominulis, convexis, nigris, subnitidis, ostiolo minutissimo conico instructis; sporulis linearibus subarcuatis, indistincte nucleolatis, 30–35 μ. longis. 2810

Hab. in foliis et caulibus Scleranthi in Gallia et Britannia.

258. **Septoria Violæ** West. exs. fasc. 2, n. 91, Kickx Fl. crypt. Fl. I. p. 434. — Peritheciis epiphyllis, minutis, numerosis, brunneo-luteis, membranaceis, in maculis orbicularibus, pallidis, zonatis, brun- 2811

neo-rufo cinctis; sporulis filiformibus, rectis vel flexuosis, obsolete guttulatis, hyalinis.

Hab. in foliis languidis Violæ caninæ, V. silvestris, V. pinnatæ in Belgio, Britannia, Italia.

259. **Septoria violicola** Sacc. *Sept. Violæ* Rabenh. in Kl. Herb. myc. n. 1457. Fuck. Symb. myc. App. p. 82. — Peritheciis epiphyllis majusculis, subdiaphanis, convexis maculâ brunneo-atrâ punctatâ cinctis; sporulis lunulato-curvatis, 1-2-septatis, 24 ≃ 7-8. 2812

Hab. in foliis adhuc vivis Violæ bifloræ in Germania et Helvetia. — An *Marsonia* v. *Septoglœum?*

260. **Septoria Arabidis** Sacc. Mich. I. p. 192. — Maculis nullis; peritheciis in foliis arescendo subochraceis sparsis gregariisque punctiformibus, prominulis ostiolo latiusculo pertusis; sporulis filiformibus, curvulis v. flexuosis, 35-40 ≃ 2, obsolete septatis, continuis, utrinque acutiusculis, hyalinis, denique in cirrum protrusis. 2813

Hab. in foliis Arabidis ciliatæ in alpibus Cadore (Belluno) Ital. bor. (S. Venzo).

261. **Septoria Armoraciæ** Sacc. Mich. I. p. 187. — Maculis irregularibus, arescendo ochraceis; peritheciis punctiformibus, in centro maculæ aggregatis, diam., 60 μ., poro pertusis; sporulis bacillaribus, curvulis, 15-20 ≃ 2-2½, utrinque obtusiusculis, 1-3-septatis minuteque guttulatis, hyalinis. 2814

Hab. in foliis Armoraciæ rusticanæ, Selva in Italia bor. — *Ascochyta Armoraciæ* Fuck. Symb. 289. huc forte spectat, sed ibi sporulæ indescriptæ. Quo pertineat *Depazea vagans* f. *Armoraciæ* Rbh. Myc. 867 ignoro. *Ascochyta Armoraciæ* Cooke F. B. n. 32 est vera *Phyllosticta.*

262. **Septoria Berteroæ** Thüm. Fungi austr. n. 1188. — Peritheciis minutis, gregariis, conicis, atris in macula nivea expallescente; sporulis filiformibus. 2815

Hab. in foliis vivis Berteroæ incanæ, Hohenstein in Austria inf. (Thümen).

263. **Septoria lepidiicola** Ell. et Mart. Am. nat. n. 1002. — Maculis pallidis, subregularibus, ¾ mill. diam.; peritheciis fusco-castaneis, aggregatis, 74 μ. diam.; sporulis hyalinis, cylindraceis, leviter curvatis, utrinque obtusis, guttulatis vel septatis, 24-33 ≃ 2,5-3. 2816

Hab. in foliis vivis Lepidii virginici, West Chester Pensylvaniæ.

264. **Septoria Lepidii** Desm. Ann. Sc. nat. 1842, XVII. p. 110. — Amphigena; maculis nullis; peritheciis sparsis vel approximatis, 2817

nigris, innato-prominulis, convexis, demum ore orbiculari late apertis; cirris albis; sporulis elongatis, linearibus, flexuosis, 50–60 μ. longis.

Hab. in foliis vivis Lepidii latifolii, L. campestris, L. officinalis, L. affinis in Italia, Britannia, Belgio, Gallia, Lusitania, Germania et Sibiria asiatica.

265. **Septoria Cardamines** Fuck. Fungi Rhen. n. 2595. — Pustulis 2818
sparsis, in maculis fusco-nigris effusis, nidulantibus, majusculis, hemisphæricis, primo diaphanis, siccis nigris, depressis; sporulis cylindraceis, vermicularibus, continuis, hyalinis, 60 ≃ 4–6.

Hab. in foliis ceterisque partibus Cardamines pratensis, quæ hinc nigrescunt et arescunt, in Rhenogovia.

266. **Septoria Sisymbrii** Ellis Amer. Nat. 1882, p. 811. — Perithe- 2819
ciis minutis, erumpentibus, sparsis vel 3–4 aggregatis; maculis arescendo albidis; sporulis linearibus, 1–2-septatis, 30–40 ≃ 3–3,5, sæpe curvatis, utrinque obtusis.

Hab. in foliis Sisymbrii in America bor.

267. **Septoria uliginosa** Speg. F. Arg. IV. n. 294. — Maculis magni- 2820
tudine ludentibus, amphigenis, determinatis, suborbicularibus ob confluentiam difformibus candidis v. pallescentibus; peritheciis epiphyllis, centralibus densiuscule gregariis, minutis 80–90, μ. diam., tenuissime membranaceis, contextu minutissime celluloso, fuligineo-olivaceo; sporulis cylindraceo-filiformibus, antice subincrassatulis, rectis v. flexuosis, 30–50 ≃ 2–2,5, hyalinis.

Hab. in foliis vivis Nasturtii Bonaërensis, in uliginosis, Parque de Palermo, Boca del Riachuelo Argentinæ.

268. **Septoria Henriquesii** Thüm. Contr. Myc. Lus. n. 393. — Peri- 2821
theciis amphigenis, numerosis, gregariis, punctiformi-emersis, opaco-nigrescentibus, parvulis, sine macula sed labes parvas cinerescentes formantibus; sporulis bacillaribus, subrectis v. minime curvulis, utrinque obtuso-rotundatis, uniseptatis, hyalinis vel pallidissime griseolis, 8–11 ≃ 2.

Hab. in foliis vivis languidisve Matthiolæ incanæ in horto botanico Coimbra Lusitaniæ.

269. **Septoria Erysimi** Niessl Mähr. Kryptogamenflora II. p. 37. — 2822
Hypophylla; maculis pallidis non limitatis; peritheciis gregariis, innatis, minutis, fuscis; cirris pallidis; sporulis fere cylindricis rectis aut curvatis, utrinque obtusiusculis, 24–34 ≃ 2,5, hyalinis, 1–3-septatis, guttulis pluribus.

Hab. in foliis emortuis Erysimi cheiranthoidis prope Gr. Niemtschitz Moraviæ.

270. **Septoria Cheiranthi** Rob. et Desm. XIV. Not. 20. — Maculis 2823
amphigenis, helvolis, rotundatis vel irregularibus; peritheciis epiphyllis paucis, nigris, prominulis, poro pertusis, dein collabascendo concavis; cirris eburneo-subcarneis; sporulis tenuissimis, 25 ≃ 1, curvulis, 6-8-nucleatis.

Hab. in foliis languescentibus Cheiranthi Cheiri in Gallia et Italia.

271. **Septoria Polygalæ** Peck et C. Rep. on the St. Mus. N. Y. — Pe- 2824
ritheciis minutis, sparsis vel aggregatis, nigris; sporulis filiformibus, rectis vel leniter curvulis, 25-40 μ. longis.

Hab. in foliis emortuis Polygalæ paucifoliæ. Portage Amer. borealis (Clinton).

272. **Septoria consocia** Peck, Bot. Gaz. 1880, p. 34. — Peritheciis, 2825
65-75 μ. diam., gregariis, amphigneis, nigris; sporulis filiformibus, rectiusculis, 15-20 μ. longis.

Hab. in foliis vivis languidisve Polygalæ Senegæ cum *Æcidio*, Michigan Amer. bor. (V. M. Spalding).

273. **Septoria Capparidis** Sacc. Mich. I. p. 185. — Maculis amphi- 2826
genis e circulari angulosis arescendo pallide ochraceis, quandoque elevatis; peritheciis gregariis punctiformibus, atris, globoso-lenticularibus 40-50 μ. diam., poro obsoleto; sporulis filiformi-bacillaribus, 15-20 ≃ 1-1½, fasciculatis, rectis, curvulis v. tortuosis, sæpe minute guttulatis, hyalinis.

Hab. in foliis Capparidis rupestris una cum *Cystopo Capparidis*, Montorio (Verona) Ital. bor. (A. Goiran).

274. **Septoria Chelidonii** Desmz. in Ann. Sc. natur. 1842, XVII. p. 2827
110. — *Ascochyta Chelidonii* Lib. Exs. n. 204. *Spilosphæria Chelidonii* Rabenh. F. Eur. n. 552. — Maculis angulosis vel rotundatis, viridi-olivaceis, brunneis, subinde centro aridis; peritheciis amphigenis, innatis, minutis, leniter applanatis; cirris luteis; sporulis filiformi-bacillaribus, 20-30 ≃ 1,5, curvulis, continuis, hyalinis.

Hab. in foliis languidis Chelidonii majoris in Italia, Belgio, Britannia, Gallia, Sibiria.

275. **Septoria Anemones** Desm. Exs. n. 940, Kickx Fl. cr. Fl. I. p. 2828
426. — Peritheciis epiphyllis minimis, gregariis, in macula fusca, medio expallescenti-viridula; sporulis 20-22 ≃ 1-1,3, obsolete 6-8-guttulatis, filiformibus, tenuissimis, ex peritheciorum apicibus profluentibus.

Hab. in foliis Anemones trifoliæ et nemorosæ in Italia, Belgio, Gallia, Germania.

276. **Septoria silvicola** Desm. Exs. n. 690, Kickx Fl. cr. Fl. I. p. 420 2829
Ascochyta anemonea Lib. Exs. n. 159. — Maculis nullis v. indeterminatis; peritheciis epiphyllis, globulosis dein depressis, nigris, sparsis; sporulis filiformibus majusculis 8–10-nucleatis, opacis; cirris albis.

Hab. in foliis Anemones nemorosæ, quæ hinc flavescunt vel fuscescunt, in Gallia et Belgio.

277. **Septoria Hepaticæ** Desm. Ann. Sc. nat. 1843, p. 340. Kickx 2830
Fl. Fl. I. p. 434. — Epiphylla; maculis brunneo-nigricantibus, demum albidis orbiculatis vel irregularibus et confluentibus; peritheciis innato-prominulis, minutissimis, nigris, poro apertis; ostiolis punctiformibus; sporulis filiformibus flexuosis, subcontinuis, 25–30 ≃ 0,7, guttulatis, hyalinis.

Hab. in foliis Hepaticæ trilobæ in Italia, Belgio.

278. **Septoria Cajadensis** Speg. Nov. Add. n. 163 Sacc. Mich. II. p. 2831
279. — Maculis albicantibus, cinereis vel ochraceis, rotundatis vel angulosis, sæpe pluribus confluentibus, concentrice rugosis; peritheciis minutis 80–90 μ. diam., globoso-lenticularibus, membranaceo-fuligineis, poro latiusculo pertusis; sporulis bacillaribus, rectis vel curvulis, medio 1-septatis, non vel granuloso-farctis, hyalinis, 20–25 ≃ 1.

Hab. ad folia viva vel languida Eranthidis hyemalis in silva alpina Cajada Ital. bor.

279. **Septoria Trollii** Sacc. et Winter, Hedwigia 1883, pag. 180. — 2832
Maculis vagis, amphigenis sed sæpius epiphyllis, arescendo ochraceo-expallentibus, subimmarginatis; peritheciis perexiguis, tectis (spuriis?), gregariis, fuscellis, 40–50 μ. diam.; sporulis filiformibus, curvulis, 40–50 ≃ 1–1,5, continuis, subinde spurie 1-septatis, hyalinis.

Hab. ad folia viva Trollii europæi, Rigi prope Luzern Helvetiæ.

280. **Septoria Ficariæ** Desm. Exs. n. 1087, Kickx Fl. Fland. I. p. 434. 2833
Sacc. Mich. II. p. 346. — Maculis epiphyllis cinerescentibus, variis, subinde brunneo-marginatis; peritheciis lenticularibus, 70–80 μ. diam. pertusis, contextu parenchymatico, ochraceo-fusco; sporulis filiformibus, 25–35 ≃ 1–1½, continuis, hyalinis, rectiusculis.

Hab. in foliis Ficariæ ranunculoidis in Italia, Britannia, Belgio, Gallia.

281. **Septoria ficariæcola** Sacc. Misc. Mycol. F. Gall. n. 2246. (An 2834
Depazea ficariæcola Lasch, Bot. Zeit. 1844, p. 426). — Maculis arescendo ochraceo-pallidis, immarginatis sæpius epiphyllis; peri-

theciis punctiformibus depressis, atris, perforatis, 50 μ. diam.; sporulis bacillari-fusoideis, 1-septatis, 18-20 ≃ 1,5, subinde curvulis, hyalinis.

Hab. in foliis Ficariæ ranunculoidis in Gallia, socio *Ecidio Ficariæ* et *Ecidiolo exanthematico* f. *Ficariæ*: conidiis ovoideis, hyalinis, 5-6 ≃ 3.

282. **Septoria Ranunculacearum** Lév. in Demid. Voy. p. 114, t. V. f. 4. 2835
— Maculis brunneis; peritheciis punctiformibus, atris, sæpius epiphyllis; sporulis filiformibus, rectis vel curvulis, utrinque acutis, 50-70 ≃ 1½, pluriguttulatis, hyalinis.

Hab. in foliis Ranunculi acris, R. Cymbalariæ in Gallia, Italia, Sibiria Tauria. — Diagnosim originalem non vidi.

283. **Septoria Ranunculi** West. Bull. ac. roy. belg. II. ser. t. XII. 2836
n. 7. — Maculis epiphyllis, rotundatis, luteo-viridibus, pallido-cinctis; peritheciis minutis, brunneis, paucis (1-3); sporulis fusiformibus, utrinque attenuatis, 4-6-globoso-nucleatis, hyalinis, 50-60 ≃ 2,5.

Hab. in foliis Ranunculi scelerati, Louvain in Belgio.

284. **Septoria oreophila** Sacc. Mich. II. p. 280. — Maculis minutis 2837
albicantibus, olivaceo-marginatis, amphigenis; peritheciis punctiformibus, lenticularibus, pertusis; sporulis bacillaribus, curvulis, utrinque obtusiusculis, 60-65 ≃ 4-4½, 3-septatis, hyalinis.

Hab. in foliis Ranunculi aconitifolii nondum emortuis, M. Grappa, Ital. bor. (A. Ross).

285. **Septoria polaris** Karst. Hedw. 1884, p. 38. — Peritheciis am- 2838
phigenis, hinc inde dense gregariis, sæpe maculis indeterminatis obsoletis arescendo expallentibus vel nigrescentibus insidentibus; subcutaneis, emergentibus, conoideo-sphæroideis, demum pertusis, nitentibus, 0,1 mill. diam.; sporulis fusoideo-bacillaribus, rectis, guttulatis, hyalinis, 16-30 ≃ 2-3.

Hab. in foliis languescentibus Ranunculi lapponici ad Adventbay (Th. Fries).

286. **Septoria cymbalarina** Thüm. Pilzfl. Sibir. n. 810. — Perithe- 2839
ciis amphigenis, dense gregariis, maculas asteroideas nigras efficiens, conico-emersis, parvis, nitido-nigris; sporulis filiformibus, rectis vel subcurvis, utrinque acutatis, medio plerumque uniseptatis, hyalinis, 20-24 ≃ 1,5.

Hab. in foliis languidis aridisve Ranunculi Cymbalariæ, Minussinsk Sibiriæ asiaticæ. — A *Septoria Ranunculacearum* et *S. Ficariæ* longe diversa.

287. **Septoria Hellebori** Thüm. Fung. Austr. n. 898. Revue Mycolog. IV. p. 217. — Peritheciis minimis, subimmersis, atris in macula spadicea, arida; sporulis..... 2840

Hab. in foliis vivis Hellebori nigri pr. Hieflau Styriæ et pr. Gorizia, et Hellebori fœtidi, Fontainebleau Galliæ.

288. **Septoria Clematidis** Rob. et Desm. in Ann. Scienc. nat. 1853, XX. p. 93. — Maculis griseo-fuscis, amphigenis, circularibus vel angulosis fusco-marginatis; peritheciis amphigenis, minutissimis, innatis, pallido-brunneis, apice pertusis; sporulis bacillaribus, 70–80 ≃ 4, utrinque obtusiusculis, quandoque subclavulatis, leniter curvis, 4–6-septatis, hyalinis. 2841

Hab. in foliis vivis Clematidis Vitalbæ in Britannia, Italia, Austria inf., in foliis Clematidis glaucæ, Minussinsk Sibiræ. — *Sept. Clematidis* Cooke F. B. n. '33 est potius *Phyllosticta.*

289. **Septoria Flammulæ** Passer. Fung. Parm. Sept. n. 2 (in nota). — Maculis subrotundis exaridis, areola ampla fusco-violacea cinctis; peritheciis centralibus subcircinatis prominulis; sporulis tenuibus breviusculis continuis non nucleolatis. 2842

Hab. in foliis Clematidis Flammulæ, Monticci prope Firenze in Italia.

290. **Septoria Clematidis-Flammulæ** Roumeg. Revue Mycolog. V. p. 178. — Maculis rotundatis, minutis, griseis, dein albis lucidisque, brunneo-cinctis; peritheciis plerumque marginalibus; sporulis filiformibus, utrinque acutis, rectis, hyalinis, 3–5-septatis, 30–35 ≃ 2–2,5. 2843

Hab. in foliis Clematidis Flammulæ, Barbizon Galliæ.

291. **Septoria Jenissensis** Sacc. Mich. II. p. 114. — Maculis nullis v. obsoletis; peritheciis amphigenis laxe gregariis, punctiformibus, lenticularibus, $^1/_{10}$–$^1/_8$ mill. diam., contextu minute parenchymatico, fusco; sporulis bacillaribus rectiusculis v. curvis, utrinque rotundatis, 30–40 ≃ 3, 1-septatis, hyalinis; basidiis (ut plerumque more generis) nullis. 2844

Hab. in foliis languidis Clematidis glaucæ ad ripas fl. Jenissei in Sibiria asiatica (Martianoff).

292. **Septoria Clematidis-rectæ** Sacc. Myc. Ven. n. 321 et Fungi Ven. V. p. 205. — Maculis albido-griseis, variis, exaridis; peritheciis generis, paucis; sporulis crassiuscule vermicularibus, 38–40 ≃ 3–3,5, 3-septatis, hyalinis. 2845

Hab. in foliis languidis Clematidis rectæ, Covolo (Treviso)

Ital. bor. — Sporularum forma a *S. Clematidis* Desm. statim dignoscitur.

293. **Septoria Viticellæ** Passerini in Rabenhorst Fungi europæi, n. 1954, Funghi Parm. Sept. n. 1. — Amphigena; peritheciis sparsis vel laxe irregulariter gregariis, punctiformibus, atris; sporulis longis subcurvis continuis in cirrum album effluentibus. 2846

Hab. in foliis Clematidis Viticellæ, Parma in Italia bor.

294. **Septoria Delphinella** Sacc. Mich. II. p. 347. — Maculis amphigenis, fusco-olivaceis; peritheciis subsparsis, punctiformibus, lenticularibus, pertusis, 120 μ. diam., contextu distincte parenchymatico, fuligineo; sporulis acicularibus, curvulis, 45–50 ≃ 2, obsolete 3-septatis, deorsum crassioribus, hyalinis. 2847

Hab. in foliis Delphinii Ajacis nondum emortuis, Saintes Galliæ (Brunaud).

295. **Septoria Staphysagriæ** Winter Contr. Myc. Lus. n. 805. — Peritheciis in macula rotundato-angulata, demum irregulari, medio pallida exaridaque, late fusco cincta, determinata, amphigenis, gregariis, punctiformibus, atris, 50–70 μ. lat.; sporulis bacillaribus, sæpe parum curvatis, utrinque subattenuatis non vel vix visibiliter uniseptatis, hyalinis, 10–16 ≃ 1½. 2848

Hab. ad folia viva Delphini Staphysagriæ, Serra d'Arrabida Lusitaniæ.

296. **Septoria Lycoctoni** Speg. Dec. Mycol. 118. Sacc. Mich. II. p. 167. — Maculis parvulis irregularibus, candidis, zona atro-fusca cinctis; peritheciis laxe gregariis, parvulis, parenchymate immersis, lenticularibus, 100–120 μ. diam., ostiolo parvulo pertusis, contextu membranaceo-parenchymatico fuligineo; sporulis filiformibus indistincte pluriseptatis, rectis curvulisve, 25–35 ≃ 1½–2, hyalinis. 2849

Hab. in foliis vivis v. languidis Aconiti Lycoctoni in silva Cansiglio Ital. bor. (Spegazzini).

297. **Septoria Napelli** Speg. Nov. Add. n. 162. Sacc. Mich. II. p. 166. — Maculis nullis; peritheciis hypophyllis, laxe gregariis vel sparsis, subcutaneis, udis prominulis, siccis cupulatis et difficillime perspicuis, atro-olivaceis, majusculis, 120–130 μ. diam., ostiolo minuto pertusis, lentiformi-hemisphæricis, contextu fuligineo-olivaceo, membranaceo-parenchymatico; sporulis cylindraceo-filiformibus, guttulatis vel septulatis, 50–100 ≃ 2–4, hyalinis. 2850

Hab. ad folia viva Aconiti Napelli in alpinis Salattis et M. Stella Cadore Ital. bor.

298. **Septoria Aquilegiæ** Penz. et Sacc. F. Mont. Gener. n. 120 — 2851

Maculis effusis, fuligineis vel atris; peritheciis dense gregariis, minutissimis, punctiformibus, 70–80 μ. diam., depressis, ostiolatis, contextu parenchymatico, atro-brunneo; sporulis rectiusculis vel leniter curvulis, utrinque attenuatis, filiformibus, continuis, eguttulatis, 25–30 ≃ 0,5–0,8; basidiis obsoletis.

Hab. in foliis vivis Aquilegiæ atratæ in pratis Montis Generosi Insubriæ (O. Penzig).

299. **Septoria podophyllina** Peck Bot. Gaz. 1879, p. 170. — Maculis latiusculis, indefinitis, rubro-brunneis; peritheciis epiphyllis, paucis, in centro macularum insidentibus pallido-nigris, prominulis, siccis collabentibus; sporulis filiformibus, longitudine variabilibus, plus minusve curvatis, 20–38 μ. longis. 2852

Hab. in foliis vivis Podophylli peltati, Illinois Amer. bor. (S. A. Forbes).

300. **Septoria Coptidis** B. et C. North Americ. Fungi n. 436 bis. — Maculis rufulis rufo-marginatis; sporulis brevioribus filiformibus, 25 μ. longis, rectis. 2853

Hab. in foliis Coptidis, Wisconsin Amer. bor.

301. **Septoria macropora** Sacc. Mich. II. p. 538. — Maculis sæpius epiphyllis, angulosis, inter nervos, sordide et pallide fuscis, non marginatis; peritheciis regulariter gregariis, globuloso-lenticularibus, velatis, 120–140 μ. diam., poro amplo apertis, contextu tenuissimo parenchymatico, fulvo-pallescente; sporulis bacillaribus, curvulis v. subflexuosis, 45–55 ≃ 1,5–2, 4–6-guttulato-pseudoseptatis, hyalinis, utrinque obtusiusculis. 2854

Hab. in foliis languidis Pæoniæ officinalis in M. Generoso Insubriæ (O. Penzig). — *Sept. Pæoniæ* West., Lamb. Myc. Belg. III. p. 125 differt maculis atrocinctis, peritheciis nigricantibus etc.

302. **Septoria Martianoffiana** Thüm. Pilzfl. Sibir. n. 117. — Peritheciis epiphyllis, gregariis vel raro sparsis, in maculis amphigenis, exaridis, fuscis, demum albescentibus orbiculatis, obscurius marginatis, subglobosis, atris; sporulis cirro hyalino spirali ejectis, fusiformibus, curvatis, uni-biseptatis, utrinque acutatis, longissimis, achrois, 45–60 ≃ 2–2,5. 2855

Hab. in foliis vivis Pæoniæ anomalæ in subalpinis prope Utunschul Sibiriæ asiaticæ.

303. **Septoria Pæoniæ** West. Bull. ac. roy. belg. t. XIX. n. 9. — Maculis epiphyllis, rotundatis, brunneis, purpureo-cinctis; peritheciis agglomeratis, immersis, brunneis; ostiolo poriformi; sporulis cylindricis, flexuosis, utrinque obtusis, 10–15-nucleolatis. 2856

Hab. in foliis Pæoniæ sinensis, Namur, Belgio (Bellynck). — Forma in foliis *Pæoniæ officinalis* lecta prope Rouen Galliæ (Letendre) præbet sporulas bacillares 15-20 ≃ 1½, spurie 1-septatas, hyalinas.

304. **Septoria Saxifragæ** Pass. Micr. ital. n. 16. — Maculis subdiscoideis, castaneo-fuscis, centro perithecia immersa vix perspicua, foventibus; sporulis bacillaribus rectis, integris hyalinis, 17-30 ≃ 3. 2857

Hab. in foliis Saxifragæ rotundifoliæ in Apennino parmensi ad Lago santo.

305. **Septoria Sedi** West. Exs. n. 943, Kickx Fl. cr. Fl. t. I. pag. 429. *Ascochyta Sedi* Lib. Exs. n. 249. — Epiphylla; maculis circularibus, griseis dein griseo-brunneis; peritheciis minutis, numerosis brunneis, sparsis, erumpentibus; sporulis cylindricis, rectis vel leniter curvatis, 5-nucleatis; cirris albis. 2858

Hab. in foliis Sedi Telephii in Belgio et Anglia.

306. **Septoria Diapensiæ** Karst. Fung. Vain. p. 142. — Peritheciis sparsis v. laxe gregariis, raro confertis, rotundatis, erumpenti-superficialibus, atris, 100-150 μ. diam.; sporulis bacillaribus v. cylindraceis guttulatis v. spurie tenuiter pluriseptatis, rectis, subchlorino-hyalinis, 17-21 ≃ 2. 2859

Hab. in foliis emortuis Diapensiæ lapponicæ in Lapponia extrema (Vainio).

307. **Septoria Cucurbitacearum** Sacc. Fungi Ven. V. p. 205. — Maculis albis, subcircularibus angulosisve, exaridis; peritheciis lentiformibus, 70-90 diam., poro late hiantibus; sporulis anguste vermicularibus, tortuosis, 60-70 ≃ 1, septulatis, hyalinis. 2860

Hab. in foliis languidis Cucurbitæ Peponis, C. maximæ et Bryoniæ dioicæ in agro parmensi, veneto, goritiensi, in Lusitania et America boreali.

308. **Septoria Cyclantheræ** Speg. F. Arg. Pug. II. n. 113. — Maculis pallide fuscescentibus pellucidis, 1-5 mill. diam., indeterminatis, anguloso-difformibus; peritheciis minutissimis, 70-80 μ. d., globoso-lenticularibus, poro minuto pertusis atris tenui-membranaceis, contextu parenchymatico, fuligineo; sporulis filiformibus, flexuosis, hyalinis, granuloso-farctis, 40-50 ≃ 1-1½, continuis. 2861

Hab. in foliis languidis Cyclantheræ Hystricis in umbrosis secus Rio de la Plata cerca de la Recoleta Argentinæ.

309. **Septoria autumnalis** Speg. F. Arg. Pug. IV. n. 284. — Maculis parvulis 0,5-1 mill. diam., amphigenis, determinatis, candidis, suborbiculari-angulosis non v. vix areola pallescente cinctis; perithe- 2862

ciis epiphyllis, centralibus minutis, 70–80 μ. d., paucis, lenticularibus tenuissime membranaceis, contextu parenchymatico olivaceo-fuligineo, ostiolo latiusculo; sporulis bacillari clavulatis, curvulis utrinque obtusiusculis 25–30 ≃ 1, grosse guttulatis v. pseudoseptatis, hyalinis.

Hab. in foliis vivis v. languidis Trianospermæ ficifoliæ in dumetis numerosis, Parque de Palermo Argentinæ.

310. **Septoria Umbelliferarum** Kalchbr. Grev. 1880 p. 20. — Maculis 2863
suborbicularibus, fuscis; peritheciis in centro maculæ sitis, punctiformibus; sporulis 35–50 μ. longis linearibus, rectis vel flexuosis, hyalinis.

Hab. in foliis Umbelliferarum in Africa australi.

311 **Septoria Heraclei** Desm. Esx. n. 534. *Aschochyta Heraclei* Lib. 2364
Exs. num. 51. — Amphigena sed distinctius hypophylla; maculis nullis v. obsolete flavicantibus; peritheciis sparsis v. maculiformiter aggregatis innatis, brunneis, subglobosis, pertusis; cirris albidis; sporulis cylindraceis, curvatis, 45–50 ≃ 3,5–4, utrinque obtusis, 5-nucleatis vel 4-septatis, hyalinis.

Hab. in foliis Heraclei Sphondylii in Britannia, Italia, Germania et Hollandia.

312. **Septoria Oreoselini** (Lasch) Sacc. Mich. I. p. 128. *Ascochyta* 2865
Oreoselini Lasch, in Kl. Herb. myc. n. 856 (non vidi). — Maculis subcircularibus expallentibus rufo-marginatis; peritheciis punctiformibus, lenticularibus, pertusis, 80–85 μ. diam.; sporulis filiformibus, curvulis, 25–26 ≃ $1^1/_2$, continuis, hyalinis.

Hab. in foliis Peucedani Oreoselini in Germ. et Austria.

313. **Septoria Pastinacæ** West. Exic. n. 639, Kickx Fl. Fl. I. p. 424. 2866
— Maculis indeterminatis pallide viridibus dein brunneolis; peritheciis sæpius hypophyllis, globuloso-depressis, pertusis, subaggregatis; sporulis bacillaribus, pluri-(16–20)-guttulatis septulatisque, hyalinis, 60 ≃ 2; cirris pallide carneis.

Hab. in foliis languidis Pastinacæ sativæ in Gallia, Belgio, Italia.

314. **Septoria pastinacina** Sacc. Mich. II. p. 102. Peck 33 Rep. St. 2867
Mus. p. 24. *Sept. Pastinacæ* Sacc. Mich. I. p. 188, nec West. — Maculis diffusis, indefinitis, brunneis; peritheciis minutis, 120–150 μ. diam. applanatis, ostiolo epidermidem perforante, nigris; sporulis filiformibus curvis vel flexuosis, 20–30 ≃ 0,7–1.

Hab. in caule Pastinacæ sativæ, pr. Treviso Ital. bor. et Albany Amer. bor.

315. **Septoria bupleuricola** Sacc. *Septoria Bupleuri* Thüm. Pilzfl. Sib. 2868
Thüm. n. 628. — Peritheciis epiphyllis, dense gregariis, conico-emersis, nitido-aterrimis in maculis orbicularibus primo indeterminatis, et fuscis, demum arescendo albo-griseis, fusco-fuligineo late marginatis; sporulis numerosis, bacillaribus, rectis vel raro subcurvatis, utrinque obtusis, continuis, hyalinis, 24–30 ≃ 2.

Hab. ad folia viva Bupleuri aurei in silvis subalpinis pr. fluvium Baraksan Sibiriæ asiaticæ. — Ut videtur, *Depazea Bupleuri* Fuck. Symb. mycol. p. 382 huc forte spectat sed sporulæ non descriptæ sunt!

316. **Septoria Bupleuri** Desm. 17 Not. 1849. p. 20, Exs. n. 1317. — 2869
Maculis minutis, subrotundis, albidis, nigro-cinctis; peritheciis hypophyllis, paucis, poro apertis; cirris albis; sporulis elongatis curvulis vel rectis, utrinque obtusis, 50 μ. longis, 3-septatis.

Hab. in foliis Bupleuri fruticosi et frutescentis in Gallia et Lusitania.

317. **Septoria Ægopodii** (Pr.) Sacc. *Cryptosporium Ægopodii* Preuss 2870
F. Hoyersw. n. 322. — Maculæ crustaceæ sparse insidens; peritheciis innatis, dein erumpentibus, atris; basidiis conicis, hypostromati celluloso insidentibus; sporulis longissimis, clavato-filiformibus, albis; episporio glabro; nucleo turbido.

Hab. ad folia Ægopodii, Hoyerswerda.

318. **Septoria ægopodina** Sacc. Mich. I. p. 185. — Maculis epiphyl- 2871
lis, minutissimis, angulosis brunneis dein arescendo dealbatis, rufo-marginatis; peritheciis sparsis punctiformibus, lenticularibus, 70 μ. diam., pertusis; sporulis filiformibus, exilibus, 25 ≃ 1¼, leniter curvis, minute pluri-guttulatis, hyalinis.

Hab. in foliis Ægopodii Podagrariæ in silva Montello, Treviso et Parma Italiæ bor. — Cum *Septoria Podagrariæ* Lasch. (= *S. Ægopodii* Desm.) nec non cum ejus varietate β. *Rabenhorstii* Kx. Flandr. I. 427 hæc species nil commune habet.

319. **Septoria Podagrariæ** Lasch in Herb. myc. n. 458, *Septoria Æ-* 2872
gopodii Desm. Crypt. Franc. 616. *Ascospora Ægopodii* de Thüm. Fung. austr. 149. — Maculis lacteis vel pallidis; peritheciis epiphyllis innatis in pagina folii utraque prominulis subsphæroideis poro pertusis, atris latit. circiter 150 μ. diam.; sporulis cylindraceis, curvulis hyalinis, 70–80 ≃ 3–4, 6–7-nucleatis.

Hab. in foliis vivis Ægopodii Podagrariæ in Germania, Italia, Britannia, Gallia, Belgio.

320. **Septoria Sii** Rob. et Desm. Not. XXI. pag. 8. *Ascochyta Sii* 2873

Lasch. — Maculis suborbicularibus dein angulosis, luteis dein brunneis, tandem albidis, sæpe flavido-marginatis; peritheciis epiphyllis, minutis, brunneis, leniter prominulis; sporulis filiformibus, rectis vel curvatis, 10-20-nucleolatis, 30-40 ≃ 2,5; cirris albis.

Hab. in foliis Sii latifolii et S. angustifolii in Belgio, Italia, Gallia. — Duas formas observavi in Sio angustifolio in agro Veneto, nempe: *foliicola* sporulis filiformibus, curvulis, 30 ≃ 1½, continuis, eguttulatis; et *caulicola* peritheciis perfectioribus, sporulis 40 ≃ 2, 7-8-guttulatis. Hæc postrema forte distinguenda.

321. **Septoria desciscens** Sacc. Mich. II. p. 143. — Peritheciis hypophyllis, dense gregariis epidermide nigrificata velatis, sed prominulis, globoso-depressis, ⅛ mill. diam. nigris, ostiolo impresso, contextu distincte parenchymatico fuligineo; sporulis bacillaribus, curvulis, utrinque rotundatis, 48-60 ≃ 4-5, plasmate 2-4-partito, hyalinis, basidiis teretibus sed irregulariter hinc inde inflatis dimidio brevioribus suffultis. 2874

Hab. in foliis Seselis stricti in salsis prope Lacum Tagarskoje Sibiriæ (Martianoff). — Præsertim basidiis abnormibus distincta.

322. **Septoria Sisonis** Sacc. Misc. Myc. F. Gall. n. 2248. — Maculis variis expallentibus; peritheciis copiosis, punctiformibus, atris; sporulis bacillaribus, obtusiusculis, obsolete 3-septatis, 30 ≃ 1,5, hyalinis. 2875

Hab. in foliis Sisonis Amomi, Saintes Galliæ (Brunaud). — Ab affini *Sept. Petroselini* differt sporulis brevioribus, maculis diversis.

323. **Septoria Petroselini** Desm. Exs. n. 674 Kickx Flor. Fl. I. p. 424, *Depazea Petroselini* Desm. Ann. Sc. nat. Bot. 1840, p. 10. — Maculis brunneolis dein candidis, determinatis, amphigenis; peritheciis minutis, tenuissime membranaceis pertusis, lenticularibus, contextu parenchymatico, olivaceo; sporulis filiformibus rectis v. flexuosis, 6-10-guttulatis vel indistincte septulatis, hyalinis, 35-40 ≃ 1-2. 2876

Hab. in foliis vivis v. languidis Petroselini sativi in Gallia, Belgio, Germania, Italia et Americ̣a australi.

324. **Septoria Anthrisci** Passer. et Brun. Revue Mycolog. II. p. 250. — Peritheciis solitariis (an semper?) in maculis pallidis discoideis, parenchymate immersis, membranaceis; sporulis filiformibus, rectis vel curvulis, tenuibus, eguttulatis, integris, 40-55 μ. longis. 2877

Hab. in foliis Anthrisci vulgaris, Montroy in Gallia (Foucaud).

325. **Septoria Levistici** West. Bull. ac. roy. belg. II. ser. t. XII. n. 7. — Maculis rotundatis vel irregularibus, latis, brunneis dein albescentibus, margine obscuriore cinctis; peritheciis minutissimis, numerosis, sparsis; sporulis cylindricis, filiformibus, rectis vel curvatis, 30-40 ≃ 1-1,3. 2878

Hab. in foliis Ligustici Levistici in Belgio (Bellynck).

326. **Septoria Bowlesiæ** Speg. F. Argent. Pug. IV. n. 285. — Maculis amphigenis, subindeterminatis, orbiculari-difformibus fusco-griseis magnitudine variis, sæpe totum fere folium occupantibus, sæpe centro albis; peritheciis subperiphericis, subcircinantibus, parenchymate immersis minutissimis, 80-90 μ. diam., fusco-olivaceis, tenui-membranaceis, contextu parenchymatico, olivascenti, ostiolo latiusculo pertusis; sporulis filiformibus, rectis v. flexuosis 50-60 ≃ 1-1,5, utrinque acutiuscule rotundatis, 3-septatis, hyalinis. 2879

Hab. in foliis vivis Bowlesiæ teneræ in herbosis, Boca del Riachuelo Argentinæ.

327. **Septoria Spegazzinii** Sacc. *Septoria Hydrocotyles* Speg. F. Arg. Pug. IV. n. 288, nec Desm. — Maculis subnullis, indeterminatis, primo flavescentibus dein fulvescentibus, amphigenis, magnitudine ludentibus, sæpius confluentibus; peritheciis sæpius hypophyllis, sparsis, minutis, 70-80 μ. d., etiam lente ægre conspiciendis, lenticularibus, tenuissime membranaceis, parenchymaticis, fuscidulis, ostiolo latiusculo impresso pertusis; sporulis cylindraceo-subclavulatis, leniter curvulis v. flexuosis, utrinque obtusiusculis, 45-50 ≃ 1,5, granuloso-farctis, indistincte septulatis, hyalinis. 2880

Hab. in foliis vivis Hydrocotyles bonariensis in uliginosis herbosis, Recoleta Argentinæ.

328. **Septoria Hydrocotyles** Desm. Ann. Sc. nat. Ser. II,. v. XVII. p. 109. — Epiphylla; maculis irregularibus, rufis v. brunneolis dein pallidis; peritheciis minutis, innatis, poro pertusis; sporulis linearibus, curvulis, 8-10-guttulatis, hyalinis, 16-25 ≃ 1-2, cirro albido. 2881

Hab. in foliis languidis Hydrocotyles vulgaris in Gallia, Belgio et Britannia.

329. **Septoria nesodes** Kalch. in Grevillea, 1880, p. 20. — Epiphylla; maculis irregularibus, fuscis; peritheciis immersis, membranaceis; sporulis cylindricis, obtusis, multinucleatis, rectis vel curvulis, 20-25 μ. longis. 2882

Hab. in foliis Hydrocotyles Asiaticæ in Africa australi.

330. **Septoria Eryngii** Passer. F. Parm. Sept. n. 57. — Peritheciis 2883
carbonaceis sphæriæformibus sparsis hypophyllis; sporulis tenuissimis, brevibus, continuis, rectis vel curvis, 20-25 ≃ 1-1,5.

Hab. in foliis putrescentibus Eryngii campestris, Parma Italiæ borealis.

331. **Septoria Visci** Bresad. in litt. ad me et in Hedw. 1883, p. 180. 2884
— Maculis subcircularibus amphigenis lutescentibus, nonnihil elevatis, margine concolori; peritheciis in centro maculæ hypophyllæ copiosis, densis, globoso-lenticularibus, late pertusis, atris, $^1/_8$-$^1/_6$ mill. diam.; sporulis anguste bacillari-fusoideis, leniter curvis, 20-34 ≃ 1,5, spurie obsolete 1-3-guttato-septulatis, hyalinis, utrinque obtusiusculis, curvulis v. flexuosis, raro rectis.

Hab. in foliis adhuc vivis Visci albi in silvis tridentinis (Bresadola).

332. **Septoria Schelliana** Thüm. Fungi aliq. Kirghis. n. XI. — Pe- 2885
ritheciis epiphyllis, minutis, gregariis, subglobulosis, atris, semiimmersis in macula primo atro-brunnea, demum arescendo albo-grisea, marginata; sporulis bacillaribus, minime arcuatis, utrinque obtusiusculis, æqualibus, 5-7-septatis, hyalinis, 42-48 ≃ 2,5.

Hab. ad folia viva Pirolæ secundæ, Sanarka, Orenburg Rossiæ.

333. **Septoria Lobeliæ** Peck Report of the Botanist. 1872, p. 87. — 2886
Maculis orbicularibus, sæpe confluentibus, aridis, pallidis vel pallide lacteis, nigro- vel brunneo-purpureo-marginatis; peritheciis minutis, numerosis, nigris, adpressis, amphigenis; sporulis filiformibus, simplicibus, 17-25 μ. long.

Hab. in foliis Lobeliæ spicatæ, Nassau, Rensselaer county Americæ borealis.

334. **Septoria Menyanthes** Desm. 21 Not. 4, p. 5. *Ascochyta Me-* 2887
nyanthes Lib. Exs. n. 251. — Amphigena; maculis fusco-rufis, irregularibus, non limitatis; peritheciis minutissimis concoloribus, poro pertusis; cirris albis; sporulis elongatis, linearibus, rectis vel curvulis, vix nucleatis, 30-40 ≃ 1,6.

Hab. in foliis languescentibus Menyanthes trifoliatæ in Gallia, Belgio, Britannia et Sibiria asiatica.

335. **Septoria Soldanellæ** Speg. Dec. Mycol. 115, Sacc. Mich. II. p. 2888
167. — Amphigena; maculis primo obscuris dein arescendo candidis sæpeque totum folium occupantibus; peritheciis globulosis, parvulis, 70-80 μ. diam., contextu membranaceo-parenchymatico

atrofuligineo, ostiolo late hiante pertuso; sporulis filiformibus, continuis (?), 20–30 ≃ 1, hyalinis.

Hab. in foliis Soldanellæ alpinæ in M. Pizzocco (Cadore) Ital. bor. (Spegazzini).

336. **Septoria Cyclaminis** Dur. et Mont. Syll. p. 279. — Epiphylla; maculis rufis demum centro cinerescentibus; peritheciis innato-prominulis, punctiformibus, numerosis, fuscis; sporulis cylindricis, exilibus, curvulis vel rectis, haud distincte septatis, 25–30 ≃ 1, hyalinis. 2889

Hab. in foliis Cyclaminis hederifolii et europæi, Alger (Durieu), in agro Treviso Ital. bor. (Saccardo).

337. **Septoria Lysimachiæ** West. in Bull. de Bruxel. 1852, III. p. 120. — Maculis indeterminatis, brunneis; peritheciis epiphyllis, minutis, poro terminali pertusis; sporulis linearibus rectis vel lenissime curvulis, 4–6-septatis, hyalinis, 50 ≃ 1,5. 2890

Hab. in foliis Lysimachiæ nummulariæ et L. vulgaris in Belgio, Italia, Britannia, Germania.

338. **Septoria increscens** Peck 33 Rep. St. Mus. 25. — Maculis initio minutis, dein majoribus, brunneis, centro aridis; peritheciis minutis, nigris; sporulis filiformibus, curvatis vel flexuosis, 30–40 μ. longis. 2891

Hab. in foliis Trientalis Americanæ, Charlton Amer. bor.

339. **Septoria Wilsoni** Clinton in Peck Rep. on the St. Mus. N. Y. — Maculis sparsis, suborbicularibus, aridis, albidis vel pallidis, fusco-cinctis; peritheciis minutis, nigris; sporulis filiformibus, curvatis, nucleolatis, 35–50 μ. longis. 2892

Hab. in foliis Chelones glabræ, Buffalo Amer. bor.

340. **Septoria Phlogis** Sacc. et Speg. in Mich. I. p. 184. — Maculis subcircularibus minutis albis, late fuligineo-rufo-marginatis; peritheciis sparsis paucis, punctiformibus, lenticularibus, 150–200 μ. diam., pertusis, laxe ochraceo-parenchymaticis; sporulis bacillaribus, flexuosis, 40–60 ≃ 1–2, tenuiter 1–3-septatis, hyalinis. 2993

Hab. in foliis Phlogis paniculatæ, Conegliano Italiæ bor. (Spegazzini).

341. **Septoria verbascicola** B. et C. Rep. on the St. Mus. N. Y. (nomen sine diagnosi). 2894

Hab. in foliis Verbasci Blattariæ, Albany et Buffalo Americæ borealis.

342. **Septoria exotica** Speg. F. Arg. Pug. II. n. 107. — Maculis minutis, 1–3 mill. lat., dense sparsis, quandoque confluentibus amphige- 2895

nis, superne candidis, determinatis, zona latiuscula purpurascenti cinctis, inferne subindeterminatis, fulvo-fuscescentibus, zona saturiore concolore ornatis; peritheciis atris, parvulis, epiphyllis 80–90, μ. d., lenticularibus tenui-membranaceis, paucis, contextu parenchymatico-olivaceo; sporulis bacillari-fusoideis, utrinque acutiusculis, rectis v. subcurvulis, granuloso-farctis 15–30 ≃ 1–1,5, continuis, hyalinis.

Hab. in foliis languidis Veronicæ speciosæ cultæ in hortis prope la Recoleta Argentinæ et, teste Spegazzini, etiam in Europa.

343. **Septoria Veronicæ** Desm. Ann. Sc. nat. 1849, xi., p. 348. *Phyllosticta Veronicæ* Cooke F. B. n. 615. — Maculis amphigenis, parvis, subrotundis, fuscis vel griseis, dein albidis exaridis, ambitu umbrinis; peritheciis epiphyllis, globosis, prominentibus, pallidis demum fusco-nigrescentibus, poro apertis; sporulis elongatis, tenuissimis, rectis vel flexuosis, indistincte nucleolatis. 2896

Hab. in foliis vivis vel languidis Veronicæ hederifoliæ in Gallia et Britannia.

344. **Septoria Gratiolæ** Sacc. et Speg. in Mich. I. p. 185. — Maculis versiformibus, arescendo fulventibus, margine concolori; peritheciis epiphyllis punctiformibus, lenticularibus, prominulis, 80–100 μ. diam., pertusis; contextu parenchymatico-sinuoso, circa ostiolum densiore; sporulis bacillaribus, curvulis, 20–22 ≃ 1, obsolete guttulatis, hyalinis. 2897

Hab. in foliis Gratiolæ officinalis, Conegliano Ital. bor. (Spegazzini).

345. **Septoria Scrophulariæ** Peck Rep. on the St. Mus. N. Y. — Maculis minutis, aridis, albidis, purpureo-brunneo-cinctis; peritheciis paucis, superficialibus; sporulis filiformibus, curvatis, hyalinis, 25–40 μ. longis. 2898

Hab. in foliis vivis Scrophulariæ nodosæ, Buffalo, Albany Amer. bor.

346. **Septoria Pentastemonis** Ell. et Everh. in litt. ad me. — Peritheciis punctiformibus nigris epiphyllis in maculis parvis, albis, orbicularibus, tenuibus, zona purpurascente cinctis; sporulis cylindricis leniter curvatis vel nucleolatis, 14–20 ≃ 1, indistincte nucleatis. 2899

Hab. in foliis Pentastemonis Digitalis, Anna, Illinois Amer. bor. (F. S. Earle).

347. **Septoria Digitalis** Passer. F. Parm. Sept. n. 94. — Peritheciis minutis sparsis in maculis fuscis irregularibus effusis, tandem are- 2900

scentibus; sporulis filiformibus, continuis, plurinucleolatis, 25–30 ≃ 1,5.

Hab. in foliis Digitalis luteæ, Collecchio, Parma Ital. bor.

348. **Septoria Antirrhini** Desm. XXI. Not. Pl. Crypt. p. 3. — Maculis 2901
flavidis; peritheciis amphigenis, minutissimis, 50–70 μ. diam., subprominulis, numerosis, gregariis vel sparsis, poro pertusis; cirris albis; sporulis cylindricis, utrinque obtusis, rectis vel arcuatis, 4–7-nucleatis (brevibus, continuis sec. Pass.), 15–20 ≃ 2–2,5.

Hab. in caulibus et foliis semiputridis Antirrhini majoris in Gallia, Lusitania, Italia.

349. **Septoria Cymbalariæ** Sacc. et Speg. in Mich. I. p. 190. — Ma- 2902
culis subcircularibus fuscescentibus; peritheciis, gregariis, punctiformibus, lenticularibus, late pertusis, contextu parenchymatico fuligineo solidiusculo; sporulis filiformibus subflexuosis, 20–35 ≃ $2^1/_2$–3, utrinque obtusiusculis, pluriguttulatis, obsolete septulatis, hyalinis.

Hab. in foliis Linariæ Cymbalariæ, Conegliano Ital. bor. (Spegazzini), et pr. Alençon Galliæ (Gillet). — In forma gallica perithecia 50–60 μ. diam.; sporulæ 15–20 ≃ 1–2.

350. **Septoria Acanthi** Thüm. Contrib. Myc. Lus. I. p. 25. — Peri- 2903
theciis epiphyllis, sparsis, parvulis, globulosis in maculis albido-arescentibus, orbiculatis, dilaceratis, latissime brunneo-cinctis et concentrice zonatis; sporulis cylindraceis, simplicibus (an semper?), subcurvulis, utrinque subacutatis, hyalinis, 20 ≃ 2.

Hab. in foliis vivis Acanthi mollis in horto Santa Cruz Lusitaniæ.

351. **Septoria Lycopersici** Speg. F. Argent. Pug. IV. n. 289. — Ma- 2904
culis magnis sæpe totum folium occupantibus, sordide fusco-cinerescentibus, subindeterminatis; peritheciis sparsis sæpius hypophyllis, lenticulari-hemisphæricis, prominulis, atris, membranaceis, contextu parenchymatico, olivaceo; sporulis bacillari-cylindraceis v. bacillari-subclavulatis majusculis, 70–110 ≃ 3, 3-pluriseptatis, utrinque obtusiuscule attenuato-rotundatis, hyalinis.

Hab. in foliis languidis Solani Lycopersici in hortis, Boca del Riachuelo Argentinæ.

352. **Septoria Dulcamaræ** Desm. in Ann. Sc. natur. 1841, XV. pag. 2905
135. — Epiphylla; maculis parvis, suborbiculatis, brunneo-griseis, demum albidis exaridis, ambitu fuscis; peritheciis innatis, minutissimis, punctiformibus, nigris; cirris tenerrimis carneis; sporulis longis, linearibus rectis vel flexuosis, 3–4-septatis, 50–60 ≃ 1,7.

Hab. in foliis vivis Solani Dulcamaræ in Italia, Gallia, Lusitania, Belgio. — Sporulæ cl. Passerinio continuæ visæ, forte ex immaturitate.

353. **Septoria Daturæ** Speg. F. Arg. Pug. II. n. 116. — Maculis candidissimis, orbicularibus determinatis, magnitudine maxime ludentibus; peritheciis minutis, 80-90 μ. d., atris, poro latiusculo pertusis, tenui-membranaceis, contextu parenchymatico, olivaceo; sporulis filiformi-subclavulatis, rectis vel curvulis, continuis, 30-40 ≃ 1-1½, hyalinis. 2906

Hab. in foliis vivis Daturæ Stramonii cerca de Barracas del Sur Argentinæ.

354. **Septoria bonariensis** Speg. F. Arg. Pug. I. p. 188. — Maculis orbicularibus, confluendo irregularibus, primo indeterminatis fuscescentibus dein perfecte determinatis, arido-candicantibus; peritheciis centralibus, subepidermicis, lenticulari-hemisphæricis, minutissimis, 80-90 μ. diam., atris, contextu tenue membranaceo, fusco-olivaceo, ostiolo parvulo ornatis; sporulis filiformibus utrinque obtusiusculis, 45-55 ≃ 1-1,5, continuis, hyalinis, granuloso-farctis. 2907

Hab. in foliis vivis vel languidis Salpichroæ rhomboideæ in planitie pamparum, rarius, in Argentina.

355. **Septoria Polemonii** Thüm. Pilzfl. Sibir. n. 630. — Peritheciis epiphyllis, numerosis, gregariis, conico-emersis, punctiformibus, atris in maculis magnis, arescentibus dilute ochraceis, irregularibus, postremo albicantibus; sporulis bacillari-cylindraceis, rectis vel minime curvulis, continuis vel obsolete uniseptatis, utrinque obtusis, achrois, 24-30 ≃ 2. 2908

Hab. in foliis vivis Polemonii cœrulei, Minusssinsk Sibiriæ asiaticæ (Martianoff).

356. **Septoria Convolvuli** Desm. in Ann. Sc. natur. 1842, XVII. pag. 108. *Sept. fuscella* Berk. in Curr. Simpl. Sphær. n. 396. — Maculis orbicularibus, dein confluentibus irregularibusque, rufis vel brunneo-fuligineis, denique centro albidis; peritheciis innatis, minutis, epiphyllis, brunneolis, pertusis; sporulis acicularibus, curvatis, 5-6-nucleatis, 35-50 ≃ 1,5. 2909

Hab. in foliis languidis Convolvuli arvensis et C. sepium in Italia, Belgio, Britannia, Rep. Argentina, Lusitania. — In forma Conv. arvensis observavi sporulas 35-50 ≃ 1-1½, aciculares minutissime 5-6-guttulatas v. septulatas hyalinas; in forma Calystegiæ sporulas 35-40 ≃ 1-1½, continuas, hyalinas, utrinque obtusiusculas. An differentiæ constantes?

357. **Septoria Calystegiæ** West. Exs. n. 642 (1851), *Septoria sepium* Desm. XXI. Not. (1853) p. 4. — Maculis parvis subrotundis, brunneis, leniter elevatis, stroma quoddam fere simulantibus; peritheciis 1-3, innatis, sæpius hypophyllis, pallidis, poro apertis; sporulis cylindraceis curvulis, 36-45 ≃ 4-5, utrinque rotundatis, 3-5-septatis, pluriguttulatis, hyalinis. 2910

Hab. in foliis Convolvuli arvensis in Ital. bor., Lusitania, Belgio, Gallia. — Verisimillime huc quoque spectat *Polystigma Calystegiæ* Kikx. quod est *Polystigma pertusarioides* Desm.

358. **Septoria Pulmonariæ** Sacc. Mich. I. p. 188. — Maculis subcircularibus, atro-fuscis, quandoque concentrice subplicatis; peritheciis (spuriis?) punctiformibus, late pertusis, sparsis; sporulis cylindraceis, vehementer curvatis, 30-32 ≃ 2, utrinque obtusiusculis, pluriguttulatis, hyalinis. 2911

Hab. in pag. superiore foliorum Pulmonariæ officinalis in silva Montello Ital. bor.

359. **Septoria Globulariæ** Sacc. Mich. I. p. 182. — Maculis arescendo griseo-albicantibus, subcircularibus, epiphyllis; peritheciis parcis, lenticularibus, 50-60 μ. diam., pertusis, dein subsuperficialibus; sporulis filiformibus, 20-24 ≃ $^3/_4$-1, rectis curvulisve, obsolete guttulatis, hyalinis. 2912

Hab. in foliis Globulariæ vulgaris, Conegliano Ital. bor. (Spegazzini).

360. **Septoria Verbenæ** Rob. et Desm. 14 Not. 1847, p. 19. — Maculis suborbicularibus, determinatis, candidis, areola purpurascenti-violacea cinctis; peritheciis minutis 80-100 μ. diam., membranaceis, contextu dense parenchymatico, fuligineo; sporulis cylindraceis, rectis vel flexuosis, 40-50 ≃ 1-1,5, hyalinis, pluri-guttulatis. 2913

Hab. in foliis Verbenæ officinalis in Gallia, Italia, Britannia, Helvetia, Amer. bor. et V. chamædryfoliæ in aridis prope el Banado San Josè de Flores in Rep. Argentina (Spegazzini). — Forma in *Verb. chamædrifolia* præbet sporulas majores 40-70 ≃ 2-2,5, indistincte pluriseptulatas.

361. **Septoria Lavandulæ** Desm. 21 Not. 4. p. 2. Schröt. Mader. Pilz. n. 19. — Maculis amphigenis, numerosis, albido-exaridis, rotundatis aut irregularibus, margine elevato purpureo cinctis; peritheciis sæpe epiphyllis, paucis, minutissimis, nigris, globosis, poro pertusis, prominulis, siccis cupulatis; sporulis linearibus, rectis vel curvulis, 25-35 ≃ 1-2. 2914

Hab. in foliis languescentibus Lavandulæ veræ et Lav. Stœhcadis in Gallia, Britannia, Italia boreali, Madera insula.

362. **Septoria Lamii** Passer. in Thüm. Mycotheca univ. 1183. — Peritheciis exiguis in maculis irregularibus fusco-exaridis, venis limitatis, sparsis; sporulis tenuissimis, flexuosis (continuis?) 40 μ. longis. 2915

Hab. in foliis vivis præcipue floralibus rarius in caulibus Lamii purpurei, Parma Ital. bor.

363. **Septoria lamiicola** Sacc. Mich. I. p. 180 (*S. Lamii*), *Sept. heterochroa* forma in *Lamiis* Desm. — Maculis vagis tandem albicantibus, rufo-marginatis; peritheciis punctiformibus, paucis, brunneis; sporulis filiformibus tortuosis, 50 ≃ 1, distincte 3–5-septatis, hyalinis. 2916

Hab. in foliis Lamii Orvalæ et L. albi in Italia bor., Gallia, Britannia. — A *S. heterochroa* Desm. typica differt sporulis duplo triplove longioribus atque distincte septatis.

364. **Septoria heterochroa** Desm. Ann. Sc. natur. 1847, VIII. p. 22 (excl. forma in *Lamiis* et *Antirrhino*). — Maculis amphigenis, sparsis, minutis, suborbiculatis, griseo-brunneis dein albis evanidis, sæpe brunneo-cinctis; peritheciis paucis, epiphyllis rarius hypophyllis, exilibus, fulvis, brunneis, demum nigris, poro apertis, siccis concavis; sporulis linearibus, tenuissimis, rectis v. curvulis, 25 μ. long. 2917

Hab. in foliis Malvæ silvestris, Plantaginis lanceolatæ in Italia, Belgio, Britannia.

365. **Septoria Lophanthi** Wint. Hedwigia 1883, p. 71. — Maculis amphigenis, angulosis, fusco-atris, 1–3 mill. latis, sæpe confluentibus; peritheciis amphigenis, gregariis, immersis, subglobosis, 150–200 μ. diam., mox sporularum cirris velatis; sporulis filiformibus, flexuosis aut curvatis, utrinque acutiusculis vel uno apice rotundato, altero angustato auctore, hyalinis, non vel parce septatis, 35–55 ≃ 2–2,5, in cirros albos, longos demum diffluentibus et crustam albam formantibus. 2918

Hab. in foliis vivis Lophanthi nepetoidis, Illinois Amer. bor. (Seymour).

366. **Septoria Menthæ** (Thüm.) Oud. Mat. Fl. mycol. Nederland. p. 4. *Depazea Menthæ* Thüm. F. Austr. n. 1275. — Maculis primitus nigrescentibus, mox pallentibus, denique cinereis vel achromis, polymorphis, 1–2 mill. diam., sparsis vel confluentibus, linea nigra limitatis; peritheciis nigris exiguis uno vel pluribus in centro maculæ cæspitose congestis; ostiolis non observatis; sporulis aciculariis, hyalinis, continuis, 58 ≃ 1,2. 2919

Hab. in foliis subvivis Menthæ arvensis in Bohemia et Hollandia.

367. **Septoria menthicola** Sacc. et Let. in Mich. II. pag. 345. (*Sept. Menthæ*). — Maculis minutis, subcircularibus, amphigenis, subochraceis; peritheciis punctiformibus, lenticularibus, pertusis; sporulis filiformibus, flexuosis, continuis, 30-40 ≃ 1, hyalinis. 2920

Hab. in foliis languidis Menthæ arvensis v. affinis, pr. Rouen Galliæ (Letendre). — A *Sept. Menthæ* maculis haud marginatis sporulisque multo brevioribus differre videtur.

368. **Septoria Melissæ** Desm. 21 Not. 4, p. 3. — Amphigena; maculis fusco-nigris, numerosis, limitatis, angulosis, irregularibus; peritheciis innato-prominulis, nigris, globosis, dein collabascendo concavis; nucleo cinereo; sporulis filiformibus, rectis vel curvulis continuis, 30 ≃ 1,6. 2921

Hab. in foliis languescentibus Melissæ officinalis in Gallia et Italia.

369. **Septoria Mellitidis** Sacc. et Speg. in Mich. I. pag. 182. — Maculis vagis arescendo dealbatis, fuligineo-cinctis; peritheciis epiphyllis, punctiformibus, subprominulis, pertusis; sporulis cylindraceo-bacillaribus, rectiusculis, 20-30 ≃ 2, distincte 3-septatis, hyalinis. 2922

Hab. in foliis Mellitidis Melissophylli, Conegliano Ital. bor. (Spegazzini).

370. **Septoria Galeopsidis** West. Bull. Ac. roy. 6, II. serie t. XII. n. 7, *Ascochyta Galeopsidis* Lasch in Kl. Herb. Myc. n. 1058. — Maculis hypophyllis, subviridibus vel brunneis, irregularibus, angulosis, foliorum venulis circumscriptis; peritheciis brunneis, punctiformibus, sparsis; sporulis cylindricis, rectis vel flexuosis, 30-40 ≃ 1-1,5. 2923

Hab. in foliis Galeopsidis Tetrahit et grandifloræ in Belgio, Gallia, Italia et Germania.

371. **Septoria Scutellariæ** Thüm. Pilzfl. Sibir. n. 630. et 631. — Peritheciis epiphyllis, subgregariis, mediis, lenticulari-applanatis, nigro-fuscis in maculis arescendo-candidis, membranaceis, irregularibus, postremo cito elabentibus, latissime sordide fusco-marginatis; sporulis cylindraceis, curvatis vel subrectis, uni-biseptatis, utrinque obtusis, 40-46 ≃ 2. 2924

Hab. in foliis vivis Scutellariæ galericulatæ, Sc. scordifoliæ, Patroschilowo et Minussinsk Sibiriæ asiat.

372. **Septoria Stachydis** Rob. et Desm. 14 Not. 1847, p. 19, *De-* 2925

pazea stachydicola Lasch. — Maculis amphigenis, subolivaceis, dein pallide brunneis, subexaridis, irregularibus, venulis cinctis, sparsis vel confluentibus; peritheciis epiphyllis, minutissimis, brunneo-nigris, poro apertis; sporulis bacillaribus, curvulis vel flexuosis, subcontinuis, hyalinis, 30–40 ≃ 1,7–2.

Hab. in foliis languescentibus Stachydis silvaticæ, St. palustris et St. annuæ in Belgio, Britannia, Gallia, Italia. — β. **Stachydis arvensis** Speg. F. Arg. Pug. IV. n. 293. — Maculis sparsis, orbicularibus minutis 1–2 mill. d., albo-arescentibus determinatis; peritheciis lenticularibus, minutis 80–90 μ. d., atris membranaceis, contextu parenchymatico, fusco-olivaceo; sporulis filiformibus rectis v. flexuosis, utrinque rotundatis, 20–25 ≃ 1, non v. 1-septatis, hyalinis. — In foliis Stachydis arvensis in Argentina, frequens (J. Hieronymus).

373. **Septoria Dracocephali** Thüm. Pilzfl. Sibir. n. 446. — Peritheciis epi- raro etiam hypophyllis, minutissimis, dense gregariis, subglobosis, emersis, fuscis, in maculis plus minusve orbiculatis, exarido-albescentibus mediis, griseo-fusco-marginatis, solitariis; sporulis cylindrico-fusiformibus, utrinque angustato-acutatis, leniter arcuatis, triseptatis, 30 ≃ 2–2,5, hyalinis. 2926

Hab. in foliis vivis Dracocephali in pratis subalpinis alpium Sajanensium Sibiriæ asiaticæ.

374. **Septoria Salviæ** Passer. Funghi Parm. Sept. n. 98. — Peritheciis minimis, semper tectis, vix prominulis in maculis exiguis subdiscoideis, primo fuscis, tandem exaridis; sporulis filiformibus, tenuibus, rectis vel parce flexuosis, continuis, intus granulosis, 65–70 μ. longis. 2927

Hab. in foliis Salviæ pratensis, Collecchio pr. Parma Italiæ borealis.

375. **Septoria Lycopi** Pass. Hedw. 1878, p. 60. *Septoria palustris* Sacc. Mich. II. p. 103, (1880). — Maculis vagis amphigenis, sordide fuscis; peritheciis sparsis, vix perspiciendis, lenticularibus poro pertusis; sporulis bacillaribus, curvis, 50 ≃ 2, spurie septulatis, hyalinis. 2928

Hab. in foliis Lycopi europæi pr. Rouen Galliæ (Letendre) et in agro parmensi (Passerini).

376. **Septoria Scorodoniæ** Pass. in litt. (ut var. *Sept. Teucrii*). Sacc. Miscell. Myc. n. 2243. — Maculis minutis subcircularibus, præcipue epiphyllis, denique folium perforantibus, rufo-ochraceis; peritheciis paucis punctiformi-lenticularibus, 80 μ. diam., perforatis; spo- 2929

rulis bacillaribus, utrinque obtusiusculis, continuis, hyalinis, 28–36 ≃ 1–1,3, eguttulatis.

Hab. in foliis languidis Teucrii Scorodoniæ pr. Rouen (Letendre), Taillebourg Char. inf. (Brunaud).

377. **Septoria Teucrii** Sacc. Mich. I. p. 184. — Maculis subcircularibus, parvis, arescendo candicantibus, fusco-marginatis; peritheciis epiphyllis, lenticularibus, punctiformibus, 90 μ. diam., pertusis; sporulis bacillaribus, curvulis, utrinque obtusiusculis, 35 ≃ 2, obsolete pluriguttulatis, hyalinis. 2930

Hab. in foliis Teucrii Chamædryos, Conegliano Ital. bor. (Spegazzini).

378. **Septoria microsora** Speg. Nov. Add. n. 161. Sacc. Mich. II. p. 278. — Maculis cinnamomeis, sæpius totum folium occupantibus, arescentibus et tunc fragilibus; peritheciis hypophyllis hinc inde sparsis vel 3–5-gregariis, et sorum parvulum, punctiforme, atrum efficientibus, minutissimis, 40–50 μ. diam., ostiolo umbilicato late hiante, 10–15 μ. diam., donatis; contextu densiuscule parenchymatico, atro-fuligineo; sporulis acicularibus, utrinque acutiusculis, rectis vel curvulis, primo pluriguttulatis, dein pluriseptatis, hyalinis, 20 ≃ 1. 2931

Hab. in foliis Gentianæ asclepiadeæ in pascuis alpinis M. Civetta et Mojazza Ital. bor.

379. **Septoria Gentianæ** Thüm. Pilzfl. Sibir. n. 118. — Peritheciis epiphyllis, dense gregariis, subconicis, minutis, in macula pallide fusca, irregulariter dispositis; sporulis fusiformibus, curvatis, utrinque acutatis, uniseptatis, 3–5-nucleatis, hyalinis, 28 ≃ 3. 2932

Hab. in foliis languidis Gentianæ adscendentis, G. macranthæ pr. Minussinsk Sibiriæ asiaticæ.

380. **Septoria Villarsiæ** Desm. in Act. Lill. 1842, III. p. 106. — Epiphylla; maculis parvis, rufo-griseis, suborbiculatis, 3–5 mill. diam., sparsis vel confluentibus; peritheciis innatis, minutissimis, nigris, numerosis; cirris tenuissimis albidis; sporulis elongatis, linearibus, rectis vel subflexuosis, multiseptatis, 35–50 μ. longis. 2933

Hab. in foliis vivis Villarsiæ (Limnanthemi) nymphoidis in Gallia, Italia, Germania.

381. **Septoria Limnanthemi** Thüm. F. Kirghis. n. XIII. — Peritheciis epiphyllis, dense gregariis, semiimmersis, punctiformibus, minutis, globosis, atris in maculis plus minusve orbiculatis, fusco-griseis, ochraceo-fusco late cinctis, subtus sordidis; sporulis bacillaribus, plerumque paullo arcuatis, utrinque subobtusatis, non vel obsolete uniseptatis, achrois, 30–45 ≃ 2–2,5. 2934

Hab. in foliis vivis Limnanthemi nymphoidis Kybschewa (Orenburg) Rossiæ. — An diversa a *Sept. Villarsiæ?*

382. **Septoria Vincetoxici** (Schub.) Auersw. in Rabenh. F. Eur. *Depazea Vincetoxici* Schub. in Fic. Dresd. II. p. 352. *Sphœria Vincetoxici* Fr. Elench. II. p. 111. — Maculis epiphyllis vagis arescendo candicantibus, fusco-marginatis; peritheciis punctiformibus, fuscis, pertusis; sporulis filiformibus, tortuosis, 30-50 ≃ 1-1½, continuis, hyalinis. 2935

Hab. in foliis languidis Cynanchi Vincetoxici in Germania, Italia, Belgio.

383. **Septoria Hoyæ** Sacc. Mich. I. p. 172. — Maculis forma variis, arescendo eburneis, fusco-cinctis; peritheciis lenticularibus, pertusis, diam. 60-70 μ. d., contextu parenchymatico, fuligineo; sporulis cylindraceis v. clavulatis, 20-25 ≃ 1-1¾, continuis v. obsolete septatis, hyalinis. 2936

Hab. in foliis Hoyæ carnosæ in hortis Padova Ital. bor.

384. **Septoria asclepiadea** Sacc. Mich. I. p. 196. — Maculis nullis v. obsoletis; peritheciis amphigenis dense gregariis, globoso-lenticularibus, prominulis, punctiformibus, atris; sporulis bacillari-fusoideis, 18-20 ≃ 2½-3, curvulis, utrinque obtuse attenuatis, obsolete 1-septatis, non constrictis, hyalinis. 2937

Hab. in foliis Cynanchi Vincetoxici et Marsdeniæ erectæ in horto patavino Ital. bor. et pr. Rouen Galliæ. — A *Sept. Vincetoxici* toto cœlo diversa.

385. **Septoria littorea** Sacc. Mich. II. p. 280. — Maculis subcircularibus, minutis, ochraceis, late rufescenti-marginatis; peritheciis punctiformibus, lenticularibus; sporulis bacillaribus, curvulis, 50-60 ≃ 2-2¼, utrinque obtusiusculis, pluriguttulatis, hyalinis. 2938

Hab. in foliis nondum emortuis Apocyni Veneti in insula Lido di Venezia Ital. bor. (O. Penzig).

386. **Septoria Araujæ** Speg. F. Argent. Pug. III. n. 112. — Maculis nullis v. hypophyllis vix pallescentibus; peritheciis hypophyllis, laxe gregariis, globosis, subepidermicis prominulis, atris, minutis 70-80 μ. diam., tenui-membranaceis, contextu densiusculo, parenchymatico, fuligineo; sporulis bacillaribus, utrinque rotundatis, continuis, granuloso-farctis 30-40 ≃ 3, hyalinis, ex ostiolo cirratim protrusis. 2939

Hab. ad folia languida v. dejecta Araujæ albentis in sepibus prope San José de Flores Argentinæ.

387. **Septoria purpureola** Speg. F. Argent. Pug. IV. n. 292. — Ma- 2940

culis magnitudine ludentibus 1–5 mill. diam., suborbicularibus, candidis, determinatis, epiphyllis, areola magna, atro-purpurea cinctis; peritheciis paucis centralibus, minutissimis 70–80 μ. d., lenticularibus, tenuissime membranaceis, contextu parenchymatico, pallide purpurascente v. fuligineo-vinoso, ostiolo minuto impresso pertusis; sporulis, cylindraceo-bacillaribus, rectis v. flexuosis, utrinque obtusiusculis, 20–25 ≃ 1,5, medio non v. 1-septatis, non constrictis, hyalinis.

Hab. in foliis vivis Araujæ albentis in dumetis uliginosis, Parque de Palermo et Boca del Riachuelo Argentinæ.

388. **Septoria Cruciatæ** Rob. et Desm. 14 Not. 1847, p. 20. — Maculis amphigenis, paucis, ovalibus vel irregularibus, fulvis, brunneo-cinctis, in ambitu luteolis; peritheciis epiphyllis prominulis, fusco-nigrescentibus, poro apertis; cirris ochroleucis; sporulis elongatis, tenuissimis curvatis, 40–50 μ. longis. 2941

Hab. in foliis languescentibus Galiorum in Gallia, in foliis Galii borealis in Rhenogovia.

389. **Septoria Galiorum** Ellis Bull. Torrey botan. Club 1882, p. 74. — Peritheciis punctiformibus, minutis, sparsis, nigro-prominulis; sporulis aciculari-filiformibus, leniter curvatis 20–25 μ. longis, subtiliter septatis. 2942

Hab. in caulibus emortuis Galiorum in America boreali.

390. **Septoria psilostega** Ell. et Mart. Amer. Nat. 1882, p. 1001. — Maculis aureo-luteis, marginalibus; peritheciis hypophyllis, sparsis, luteis, delicatis; sporulis filiformibus, rectis vel curvatis, leviter triseptatis, 60 ≃ 3, mox in cirros varios succineos exeuntibus. 2943

Hab. in foliis Galii pilosi in America boreali.

391. **Septoria urens** Pass. Hedwigia 1881, p. 146, et F. Parm. Sept. n. 66. — Peritheciis punctiformibus, sparsis, vix nisi luce transversa perspicuis; sporulis tenuibus longis, continuis, rectis, hyalinis. 2944

Hab. in foliis Galii tricornis, Vigheffio prope Parmam Ital. bor. — Folia fungillo correpta ab apice ad basim mox exarescunt.

392. **Septoria Adoxæ** Fuck. Symb. Myc. App. II. p. 21. — Peritheciis sparsis subgregariisque, quandoque in maculis exaridis, demum liberis, aterrimis, obtuse conicis, basi applanata adnatis, minutis; ostiolo obtuso, perforato; sporulis cylindraceis, plerumque rectis, 2–3-locularibus, hyalinis 32–36 ≃ 4. 2945

Hab. in foliis Adoxæ Moschatellinæ in Rhenogovia.

393. **Septoria Ebuli** Desm. et Rob. 7 Not. 1850, p. 22. — Maculis 2946

amphigenis, minutis, subrotundatis, pallide rufis vel purpureis, sparsis, interdum confluentibus, sæpe brunneo-cinctis; peritheciis epiphyllis, convexis dein depressis, griseis demum fusco-nigricantibus, poro apertis; sporulis filiformibus, lenissime curvulis, 30-40 ≃ 1-1,5, obsolete guttulatis, hyalinis.

Hab. in foliis Sambuci Ebuli in Italia, Gallia, Belgio.

394. **Septoria Campanulæ** (Lév.) Sacc, *Ascospora Campanulæ* Lév. Ann. Sc. nat. 1846, p. 277. — Peritheciis hypophyllis gregariis, innatis, rugulosis, prominulis, demum depressis, macula pallida insidentibus, ostiolis obsoletis; sporulis cylindricis continuis linearibus, utrinque obtusis. 2947

Hab. in foliis Campanularum, Ghilan Persiæ.

395. **Septoria Prismatocarpi** Desm. Ann. Sc. nat. 1853, pag. 89. — Peritheciis minutis, atris, in maculis subcircularibus, albo-exaridis, fusco-marginatis, circinatis vel sparsis; sporulis rectis, integris, hyalinis, 30-40 ≃ 1,5. 2948

Hab. in foliis languidis Specularіæ Speculi et Sp. hybridæ in Italia bor. et Gallia. — Sec. Desm. l. c. perithecia sunt amphigena prominula pertusa, in maculis fulvescentibus, non limitatis.

396. **Septoria specularina** B. et C. North Americ. Fungi n. 439 (*Sept. Specularіæ*). — Peritheciis minutis sparsis in tota planta moribunda insidentibus; sporulis linearibus leviter curvatis, 25 μ. longis. 2949

Hab. in Specularіæ Ludovicianæ moribundæ variis partibus in Carolina inf. Amer. bor.

397. **Septoria Specularіæ** B. et C. North Americ. fungi n. 437. — Maculis pallidis obsoletisve; peritheciis prominulis sparsis; sporulis filiformibus sigmatoideis. 2950

Hab. in foliis Specularіæ perfoliatæ in Pensylvania (Michener).

398. **Septoria Phyteumatis** Siegm. in Rabh. F. E. n. 1350 (non vidi). Sacc. Mich. I. p. 184. — Maculis versiformibus, arescendo expallentibus, fusco-marginatis; peritheciis sparsis punctiformibus; sporulis filiformibus, rectiusculis v. flexuosis, 15-20 ≃ ¾, continuis hyalinis. 2951

Hab. in foliis Phyteumatum, Cadore Ital. bor. (S. Venzo).

399. **Septoria Phyteumatum** Sacc. Mich. I. p. 127. — Maculis indeterminatis expallentibus; peritheciis dense gregariis, initio epidermide velatis e globoso lenticularibus, 80-100 μ. diam., poro per- 2952

tusis, contextu parenchymatico solidiusculo fuligineo; sporulis filiformibus rectis curvulisve, 40-45 ≃ 1, vix guttulatis, continuis, hyalinis.

Hab. in foliis Phyteumatum prope Vindobonam Austriæ (Marenzeller in herb. P. Magnus).

400. **Septoria Adenophoræ** Thüm. Pilzfl. Sibir. n. 449. — Peritheciis 2953
epiphyllis, gregariis, conicis, atris, subprominulis in maculis griseo-exaridis, parvis, fusco-violaceo late cinctis; sporulis cylindraceo-fusiformibus, subarcuatulis, utrinque acutatis, tri-quadriseptatis, hyalinis, 42-48 ≃ 4.

Hab. in foliis vivis Adenophoræ tricuspidatæ in pratis subalpinis alpium Sajanensium Sibiriæ asiat.

401. **Septoria Fuckelii** Sacc. Mich. I. p. 190. *Sept. Tussilaginis* Fuck. 2954
Symb. myc. App. II. p. 83, non West. nec Thüm. Fungi Austr. n. 1187. — Maculis fuligineis, epiphyllis inæqualiter sanguineo-marginatis; peritheciis globoso-lenticularibus, majusculis, pertusis; sporulis cylindraceo-clavulatis utrinque obtusis, 40-55 ≃ 6-7, curvulis, 4-5-septatis, leniter constrictis, obsolete guttulatis, chlorino-hyalinis.

Hab. in pagina superiore foliorum Tussilaginis Farfaræ in agris Treviso et Parma Ital. bor. et Rhenogovia.

402. **Septoria Farfaræ** Passer. F. Parm. Sept. n. 70. — Maculis di- 2955
scoideis griseis tandem exaridis, linea fusca elevata limitatis et areola atro-purpurea irregulari circumdatis, subtus minus perspicuis ibique *Ecidii* vestigia exhibentibus; peritheciis minutis semiimmersis numerosis subcircinatim in maculas stipatis vel sparsis; sporulis elongato-fusiformibus, apicibus acuminatis, rectis vel leniter arcuatis, pluriseptulatis, loculis nucleolati, 55 ≃ 3.

Hab. in foliis Tussilaginis Farfaræ, Parma Italiæ bor.

403. **Septoria Tussilaginis** West. Exs. n. 640. Kickx Fl. cr. Fl. I. 2956
p. 430. — Maculis irregularibus brunneis, dein olivaceis, demum arescendo albidis, linea nigricante elevata limitatis et circum circa purpureo-maculatis; peritheciis epiphyllis, paucis, minutis, nigricantibus, nitidulis; sporulis cylindricis obtusis, rectis vel flexuosis, 8-12-guttulatis, hyalinis.

Hab. in foliis Tussilaginis Farfaræ, T. fragrantis in Germania, Italia et Belgio.

404. **Septoria Mulgedii** Thüm. Pilzfl. Sibir. n. 637. — Peritheciis epi- 2957
phyllis, sparsis, mediis, subhemisphærico-lentiformibus, fuscis, se-

miimmersis in maculis magnis, irregularibus, arescendo-griseis, late fusco-griseo marginatis; sporulis cylindraceis, utrinque acutiusculis, arcuatis, uniseptatis, achrois, 26–28 ≃ 4.

Hab. in foliis vivis Mulgedii sibirici pr. Minussinsk Sibiriæ asiaticæ.

405. **Septoria Tanaceti** Niessl Mähr. Kryptogamenflora II. p. 36. — Epiphylla; maculis indeterminatis, irregularibus sæpe confluentibus, fuscis; peritheciis minutissimis, innato-prominulis, apice conicis, atro-fuscis; cirris carneis; sporulis elongato-fusiformibus, rectis vel flexuosis, obtusis, 5–7-guttulatis. 2958

Hab. in foliis languentibus Tanaceti vulgaris prope Gr. Niemtschitz Moraviæ.

406. **Septoria Eupatorii** Rob. et Desm. 21 Not. p. 6. — Maculis amphigenis, parvis, numerosis, albido-exaridis, suborbiculatis, sæpe brunneo- vel purpureo-cinctis; peritheciis pallidis, minutissimis; cirris albis; sporulis filiformibus, parum curvatis, obsolete guttulatis, hyalinis, 25–35 ≃ 1,5. 2959

Hab. in foliis languidis Eupatorii cannabini in Gallia et Italia.

407. **Septoria Virgaureæ** Desm. Ann. Sc. nat. 1842, XVII. p. 109. — *Ascochyta Virgaureæ* Lib. Exs. n. 55. — Epiphylla; maculis orbiculatis vel irregularibus, exaridis, albido brunneoque variegatis; peritheciis innatis, minutis, convexis, subnigris, ore orbiculari late apertis; cirris albis; sporulis filiformibus, curvulis, utrinque obtusiusculis, 80 ≃ 1,5, obsolete guttulatis, continuis, hyalinis. 2960

Hab. in foliis languidis Solidaginis Virgaureæ in Italia, Gallia, Britannia, Germania, Fennia.

408. **Septoria Solidaginis** Thüm. Fung. Am. trig. Sp. n. 13. — Peritheciis hypophyllis, subgregariis vel solitariis, interdum etiam confluentibus, conico-globosis, prominentibus, elevatis, atris in macula minima, indeterminata, subpallida, in pagina superiore maculas, parvas, griseas, late purpureo-cinctas formantibus; sporulis fusiformibus, utrinque subacutatis, rectis, numerosis, medio uniseptatis, ad septa non constrictis, binucleatis, hyalinis, 15 ≃ 4. 2961

Hab. in foliis vivis Solidaginis puberulæ, socia *Coleosporii Solidaginis* Thüm., Aiken in Carolina austr.

409. **Septoria Pingræ** Speg. F. Argent. Pug. IV. n. 291. — Maculis amphigenis, elongato-suborbicularibus, determinatis, fusco- v. cinereo-albicantibus; peritheciis epiphyllis, centralibus lenticularibus, 80–90 μ d., tenui-membranaceis, contextu parenchymatico, fuligineo; 2962

ostiolo impresso pertusis; sporulis cylindraceis, rectis v. flexuosis, utrinque obtusiusculis, 45–55 ≃ 1,5, pluriseptatis, hyalinis.

Hab. ad folia viva Baccharidis pingreæ, San José de Flores Argentinæ.

410. **Septoria erigerontea** Peck 24 Rep. of the Bot. 1873, pag. 87 (sub *S. Erigeronis*). — Maculis minutis, orbicularibus, distinctis, rarissime confluentibus, aridis, brunneo- vel nigro-marginatis; peritheciis minutis, nigris, superficialibus; sporulis filiformibus, simplicibus, 25 μ. longis. 2963

Hab. in foliis Erigerontis annui, Greenbush in Amer. bor.

411. **Septoria Erigerontis** B. et C. North Amer. Fungi n. 437 bis. — Maculis rufulis margine elevato concolori; sporulis rectis, filiformibus, 38 μ. longis. 2964 1874

Hab. in foliis Erigerontis, Massachusset Amer. bor.

412. **Septoria Inulæ** Sacc. et Spegazz. Mich. I. p. 190. — Maculis variis arescendo brunneo-rufescentibus; peritheciis centralibus punctiformibus, 100–120 μ. diam., lenticularibus pertusis, laxiuscule fuligineo-contextis; sporulis bacillaribus, 30–50 ≃ 3–4, subflexuosis, utrinque rotundatis, obsolete 1-septatis, hyalinis. 2665

Hab. in foliis Inulæ salicinæ, Conegliano Italiæ borealis (Spegazzini).

413. **Septoria Nabali** B. et C. North Americ. Fungi n. 438 bis. — Maculis rufis, margine lato, plano, brunneo cinctis; sporulis tenuissimis, flexuosis, 32 μ. longis. 2966

Hab. in foliis Nabali, New Hampshire Amer. bor.

414. **Septoria Wyethiæ** Harkn. F. Calif. p. 11. — Peritheciis amphigenis, majorem folii partem occupantibus; sporulis linearibus, obscure septatis continuisve, 56 ≃ 6–8. 2967

Hab. in foliis viventibus Wyethiæ mollis, Sierra Nevada Californiæ.

415. **Septoria Saussureæ** Thüm. Pilzfl. Sibir. n. 633. — Peritheciis epiphyllis, dense gregariis, minutis, punctiformibus, emersis, nigris in maculis orbicularibus, arescendo griseolis, anguste fusco-marginatis; sporulis cylindricis, rectis vel leniter arcuatis, utrinque subobtusis, continuis sed obsolete nucleolatis, 30–40 ≃ 4, hyalinis. 2968

Hab. in foliis vivis Saussureæ glomeratæ in subsalsis pr. Minussinsk Sibiriæ asiaticæ.

416. **Septoria Bidentis** Sacc. Fungi Veneti V. p. 205. M. V. n. 311. — Maculis pallidis, rubro-cinctis, exaridis, vagis; peritheciis ge- 2969

neris, paucis; sporulis vermicularibus, 30–35 = 1–1½, indistincte septulatis, hyalinis.

Hab. in foliis languentibus Bidentis tripartitæ pr. Treviso et Parma Ital. bor. — An huc spectet *Depazea Bidentis* Lasch in Kl. Herb. M. n. 871, ignoro.

417. **Septoria Artemisiæ** Pass. F. Parm. Sept. n. 73. — Peritheciis 2970
parenchymati immersis, in maculis epiphyllis discoideis, fuscis tandem exaridis; sporulis filiformibus continuis, curvis, hyalinis 30–33 = 1½.

Hab. in foliis Artemisiæ vulgaris pr. Parma Ital. bor.

418. **Septoria Arnicæ** Fuck. Symb. Myc. App. II. p. 36 (sub *Ascochyta* e. p.). — Epiphylla; maculis fuscis; peritheciis depressis, atris, minutis; sporulis filiformibus, longissimis. 2971

Hab. in foliis Arnicæ montanæ, St. Moritz Helvetiæ, sociâ *Phyllostictâ Arnicæ* Fuck.

419. **Septoria Doronici** Passer. F. Parm. Sept. n. 75. — Peritheciis 2972
punctiformibus, dense sparsis, epiphyllis, in maculis fuscis effusis confluentibus; sporulis tenuibus, rectis integris, hyalinis, 18–20 μ. longis.

Hab. in foliis Doronici Pardalianches, Collecchio pr. Parma Ital. bor.

420. **Septoria Ptarmicæ** Passer. F. Parm. Sept. n. 77. — Perithe- 2973
ciis punctiformibus fuscis in dentibus folii aridis sparsis; sporulis filiformibus, rectis, tenuissimis, brevibus, continuis, hyalinis, 20–25 = 0,7–1.

Hab. in foliis vivis v. subaridis Achilleæ Ptarmicæ, Parma Ital. bor.

421. **Septoria sordidula** (Lév.) Sacc. *Ascospora sordidula* Lév. Ann. 2974
Sc. nat. 1846, p. 277. — Peritheciis epiphyllis, innatis, erumpentibus confertis maculam atram suborbicularem sistentibus; ostiolis depressis albicantibus; sporulis albicantibus continuis, linearibus, utrinque obtusis.

Hab. in foliis Aplotaxeos in India orientali.

422. **Septoria Bellidis** Desm. et Rob. 21 Not. 1853, p. 6. — Macu- 2975
lis olivaceis, dein fulvo-subterreis, subaridis, irregularibus; peritheciis amphigenis, minutissimis, 50 μ. diam., gregariis v. sparsis, fusco-nigrescentibus, poro pertusis; sporulis elongatis, subrectis indistincte nucleatis, 35 μ. longis.

Hab. in foliis languescentibus Bellidis in Gallia.

423. **Septoria bellidicola** Desm. et Rob. Not. XXI. p. 7. Sacc. Mich. 2976

I. p. 182. — Maculis albis rufo-marginatis; peritheciis epiphyllis, sparsis, nigris, prominulis, demum depressis umbilicatis, poro pertusis; sporulis filiformibus obsolete septulatis, 80-100 ≃ 2-2½, hyalinis.

Hab. in pagina superiore foliorum Bellidis perennis, Conegliano Ital. bor. (Spegazzini) et in Gallia (Rob.).

424. **Septoria socia** Passer. F. Parm. Sept. n. 74. — Peritheciis in maculis fuscis subrotundis vel irregularibus subaggregatis, punctiformibus, epiphyllis; sporulis tenuibus, breviusculis, continuis, obsoletissime nucleolatis, plerumque rectis, 25-30 μ. longis. 2977

Hab. in foliis languidis Leucanthemi vulgaris, Collecchio Parma Italiæ bor.

425. **Septoria Leucanthemi** Sacc. et Speg. in Mich. I. p. 191. — Maculis subcircularibus sinuosisque, fuscescenti-ochraceis, denique areola centrali alba; peritheciis sparsis, punctiformibus, lenticularibus 200-300 μ. diam., latiuscule pertusis, contextu laxiuscule parenchymatico pallide fuligineo; sporulis filiformibus, curvulis flexuosisve, 100-130 ≃ 4-5, crassiuscule pluriguttulatis, obsolete septatis, hyalinis. 2978

Hab. in foliis Leucanthemi vulgaris, Conegliano Ital. bor. (Spegazzini), Coimbra Lusitaniæ (Moller).

426. **Septoria anaxæa** Sacc. Mich. I. p. 189. — Maculis vagis epiphyllis ex ochraceo fuligineis, quandoque flavo-cinctis; peritheciis punctiformibus globoso-lenticularibus, 80-90 μ. diam., pertusis; sporulis bacillaribus, curvulis, utrinque obtusiusculis, 50-70 ≃ 3½, minute pluriguttulatis v. obsolete septatis, hyalinis. 2979

Hab. in pag. sup. foliorum Senecionis prælti in silva Montello ad flumen Piave (Anaxum) Ital. bor.

427. **Septoria Senecionis** West. Bull. Ac. roy. belg. t. XIX. n. 9. — Maculis epiphyllis, rotundatis vel irregularibus griseo-nigris, centro albicantibus; peritheciis immersis, nigris; ostiolo poriformi; sporulis cylindricis, rectis vel flexuosis, utrinque attenuatis, 40 ≃ 1,5, obsolete 3-4-septatis, hyalinis. 2980

Hab. in foliis Senecionis sarracenici, S. nemorensis, S. campestris, in Belgio, Italia, Germania et Sibiria asiatica.

428. **Septoria atro-purpurea** Peck. 33. Rep. St. Mus. 25. — Maculis suborbicularibus, non vel confluentibus, sæpe purpureo-brunneis, ad centrum areola minuta pallida, arescente instructis, infra pallide purpureis, centro ochraceo-brunneolo; peritheciis paucis; cirris albis; sporulis filiformibus, rectis vel flexuosis, 50-75 μ. longis. 2981

Hab. in foliis vivis Asteris macrophylli, Jamesville Americæ borealis.

429. **Septoria Galinsogæ** Speg. F. Arg. Pug. IV. n. 287. — Maculis 2982
subdeterminatis, majusculis, sæpe totum folium occupantibus, fuscescentibus, centro pallescentibus v. albicantibus, perithecigeris; peritheciis epiphyllis densiuscule gregariis innato-prominulis atris, lenticularibus 80–90 μ. diam., tenuissime membranaceis, contextu parenchymatico, olivaceo, ostiolo latiusculo 20–25 μ. diam., pertusis; sporulis filiformibus, rectiusculis, subindistincte pluriseptulatis, 40–60 ≃ 1, hyalinis.

Hab. in foliis languidis Galinsogæ parvifloræ in hortis, Boca del Riachuelo Argentinæ.

430. **Septoria Cardunculi** Pass. in Myc. univ. n. 594, Flora 1877, n. 13. 2983
— Peritheciis punctiformibus in maculis exaridis, sparsis, membranaceis, cellulis parvis, irregularibus, fuscis contextis; sporulis filiformibus, arcuatis, creberrimis, hyalinis, 50 ≃ 1,7.

Hab. ad folia languida Cynaræ Cardunculi, Vigheffio pr. Parma Ital. bor. (Passerini).

431. **Septoria Scolymi** Passer. Hedw. 1881. p. 146. — Peritheciis 2984
per folium exaridum sparsis, punctiformibus, atris, utrinque, sed præsertim subtus prominulis; sporulis tenuibus rectis, integris, obscure nucleolatis 30–40 μ. longis.

Hab. in foliis languidis Scolymi hispanici, Vigheffio pr. Parma Italiæ bor.

432. **Septoria Silybi** Passer. F. Parm. Sept. n. 79. — Maculis sub- 2985
orbicularibus, griseo-fuscis, nitidis; peritheciis in maculis sparsis, parenchymati immersis, utrinque punctiformi-protuberantibus, nigris, subtus ostiolo acuto erumpentibus; sporulis filiformibus, rectis vel flexuosis continuis, 65–70 μ. longis.

Hab. in foliis languidis Silybi Mariani, in hortis Parma Ital. bor. — *Septoriæ Cirsii* affinis.

433. **Septoria Cirsii** Niessl Mähr. Cryptogamenflora II. p. 36, Sacc. 2986
Mich. II. p. 188, Pass. F. Parm. Sept. n. 76. — Epiphylla; maculis magnis, aridis, brunneo-pallescentibus, sæpe subcircularibus indeterminatis vel linea brunnea cinctis, nitidulis; peritheciis gregariis, innato-prominulis, minutis, hemisphæricis, papillatis; sporulis cylindricis, subflexuosis, utrinque obtusis, fere truncatis, 8–12-septatis, 40–80 ≃ 1,5–2.

Hab. in foliis emarcescentibus Cirsii arvensis pr. Rossitz Moraviæ, Parma et Treviso Italiæ. — Sporularum longitudo ad-

modum varia, a 40 ad 100 μ. diam. et ultra. In maculis griseo-fuscis occurrunt quoque maculæ discoideæ, minutæ, exaridæ, candidæ, perithecia subsolitaria, sporulis longioribus fœta, foventes. Pass. l. c.

434. **Septoria? Serratulæ** (Wallr.) Sacc. *Helicobolus Serratulæ* Wallr. Fl. Crypt. n. 3645. — Peritheciis membranaceis nigris synphlœodeis, primum conicis clausis, dein vertice truncato aperto emergentibus stillaque sporularum pallida coronatis. 2987

Hab. in foliis languidis Serratulæ (Cirsii) arvensis passim in Germania.

435. **Septoria Lapparum** Sacc. Mich. I. p. 184. — Maculis epiphyllis e circulari angulosis, minutis, initio fuligineis, tandem candicantibus; peritheciis sparsis, lenticularibus, 80–100 μ. diam., punctiformibus, pertusis; sporulis bacillaribus, curvatis, 25 ≃ 1–1¼, continuis, hyalinis. 2988

Hab. in foliis Lappæ minoris, Selva Ital. bor.

436. **Septoria Centaureæ** (Roum.) Sacc. *Phyllosticta Centaureæ* Roum. F. Gall. n. 1633. — Maculis minutis, variis, amphigenis, olivaceis dein pallentibus, vix marginatis; peritheciis punctiformibus; sporulis bacillaribus, curvulis, 2–4-septulatis, non constrictis, hyalinis, 55–60 ≃ 1,5–2, utrinque obtusiusculis. 2989

Hab. in foliis languidis Centaureæ nigræ, Toulouse Galliæ.

437. **Septoria Intybi** Passer. F. Parm. Sept. n. 81. — Peritheciis minutissimis, sparsis, tectis, atris; sporulis tenuibus integris, obscure nucleolatis, 25–30 μ. longis. 2990

Hab. in ramulis siccis Cichorii Intybi, Vigheffio pr. Parma Italiæ bor.

438. **Septoria Endiviæ** Thüm. Contr. Funghi Litor. n. 345. — Peritheciis hypophyllis, gregariis, minutis, punctiformibus, obscure fuscis, globulosis, sine macula sed in folii parte arida decolorata, sordide fuscidula; sporulis bacillaribus vel filiformibus, rectis vel curvatis, utrinque obtusatis, continuis vel obscure uniseptatis, hyalinis, 24–30 ≃ 2. 2991

Hab. in foliis languidis Cichorii Endiviæ, Rubbia prope Gorizia.

439. **Septoria Lactucæ** Pass. Atti Soc. Crittog. Ital. vol. II. pag. 35 (1879). — Maculis ferrugineis, irregularibus, angulosis, totam folii laminam mox adurentibus; peritheciis minimis, punctiformibus sparsis, 90 μ. diam.; sporulis filiformibus, integris rectis vel curvulis, hyalinis, 25–30 ≃ 1,7–2. 2992

Hab. in foliis vivis languidisve Lactucæ sativæ, Parma, Belluno in Italia, Saintes in Gallia. — Non videtur diversa *Septoria Lactucæ* Peck Bot. Gaz. Jun. 1879, pag. 170. Maculis indefinitis, pallidis vel brunneis; peritheciis minutis, sparsis, nigris; sporulis plus minusve curvatis, 20–38 μ. longis. — In foliis vivis Lactucæ sativæ, Illinois Amer. bor.

440. **Septoria lactucicola** Ell. et Mart. Amer. Nat. 1882, p. 1002. 2993
— Peritheciis punctiformibus, minutis, sparsis, brunneis, in maculis concentrice rugosis, 12–30 mill. diam.; sporulis filiformibus, sæpe curvatis, 25–30 μ. longis.

Hab. in foliis vivis Lactucæ canadensis, Newfield N. J. Americæ borealis.

441. **Septoria Ætheorrhizæ** Thüm. Contr. Myc. Lusit. n. 610. — Pe- 2994
ritheciis amphigenis, numerosis, parvis, dense gregariis, punctiformibus, globulosis, immersis, atris in maculis irregularibus arescendo ochraceo-fuscis, indeterminatis; sporulis bacillaribus, subrectis vel leniter arcuatis, utrinque obtusis, obsolete uniseptatis, hyalinis, 24–26 ≃ 1,5-2.

Hab. ad folia viva Ætheorrhizæ bulbosæ, St. Clara pr. Coimbra Lusitaniæ (Moller).

442. **Septoria sonchifolia** Cooke Rav. Fung. Amer. n. 31. Hedw. 1878, 2995
pag. 38. — Maculis orbicularibus vel elongatis, brunneis; sporulis linearibus, rectis vel curvulis, hyalinis, 20 μ. longis.

Hab. in foliis Sonchi asperi in Carolina austr. Amer. bor. (Ravenel).

443. **Septoria sonchina** Thüm. Pilzfl. Sibir. n. 634. — Peritheciis epi- 2996
phyllis, sparsis vel subsolitariis, magnis, semiimmersis, punctiformi-sublenticularibus, atro-fuscis, hemisphæricis in maculis irregulari-orbicularibus, arescendo ochraceis, magnis, epiphyllis, fusco-violaceis, marginatis; sporulis cylindraceo-bacillaribus, arcuatulis, utrinque acutiusculis, obsolete tri-quadriseptatis, numerosis, achrois, 28–34 ≃ 1,5-2.

Hab. in foliis vivis Sonchi oleracei, Minussinsk Sibiriæ. — A *Septoria Sonchi* Sacc. maculis et sporulis toto cœlo diversa.

444. **Septoria Sonchi** Sacc. Mich. I. p. 183. — Maculis oblongis vi- 2997
ridi-griseis, obsoletis, cladogenis, rarius hypo- et epiphyllis; peritheciis remotiuscule gregariis, lenticularibus, innato-prominulis, 110 μ. diam., late pertusis; contextu laxiuscule cellulari, subochraceo; sporulis cylindraceo-bacillaribus, sæpe flexuosis, utrinque obtusiusculis, 20–24 ≃ $1^1/_2$-2, minute pluriguttulatis, hyalinis.

Hab. in foliis caulibusque nondum emortuis Sonchi oleracei, Conegliano Ital. bor. (Spegazzini). — A *Septoria nebulosa* var. *minore* Desm. XXI. Not. p. 6 differt præcipue peritheciis majoribus, remotioribus, melleis nec nigris.

445. **Septoria Mougeoti** Sacc. et Roum. Reliq. Libert. IV. n. 151. — Maculis amplis flavicantibus centro subolivaceis; peritheciis punctiformi-lenticularibus 80 μ. diam.; sporulis filiformibus, 35–40 ≃ 1, hyalinis, eguttatis, continuis. 2998

Hab. in foliis Hieraciorum, Malmedy in Arduennis.

446. **Septoria scabiosicola** Desm. in Ann. Sc. nat. 1853, XX. p. 96. — *Sphæria lichenoides* vel *scabiosicola* DC. *Ascochyta Scabiosæ* Rabenh. — Maculis orbicularibus fusco-purpureis, pallido-cinctis, dein centro albidis, scariosis; peritheciis epiphyllis, minutis, nigris, paucis (1–3); sporulis filiformibus, rectiusculis, 40–50 ≃ 0,7–1½ parce et obsolete septatis v. 5-6-guttulatis, hyalinis. 2999

Hab. in foliis Scabiosæ arvensis, Sc. atropurpureæ, Sc. ochroleucæ et Succisæ in Gallia, Britannia, Italia, Lusitania, Belgio, Sibiria asiat.

447. **Septoria succisicola** Sacc. Mich. I. p. 191. — Maculis indeterminatis obsoletis; peritheciis sparsis epiphyllis, punctiformibus, atris; sporulis filiformibus, 20 ≃ ½, minute 5-6-guttulatis, hyalinis. 3000

Hab. in pag. sup. foliorum nondum emortuorum Succisæ pratensis in silva Montello Ital. bor. — A *Sept. scabiosicola* f. *Succisæ* toto cœlo diversa.

448. **Septoria fullonum** Sacc. *Septoria Dipsaci* Schiedermayer Hedw. 1878, p. 174. — Peritheciis minutissimis 120 ≃ 80, gregariis, ovato-globosis, rugoso-reticulatis, fusco-atris; maculis aridis sordide-albescentibus immersis, ostiolo prominulo; sporulis longissimis, 60–80 ≃ 2, curvatis, filiformibus, hyalinis. 3001

Hab. in pagina utraque foliorum Dipsaci Fullonum in Austria.

449. **Septoria Dipsaci** West. Bull. ac. roy. belg. II. Ser. t. XII. n. 7. — Maculis epiphyllis, initio brunneis, dein albis et eburneis, minutis, rotundatis vel angulosis, nervis foliorum limitatis, sparsis vel confluentibus; peritheciis nigris, minutissimis, sparsis; sporulis cylindricis, rectis, 60 ≃ 1,2. 3002

Hab. in foliis Dipsaci azurei in horto bot. Louvain in Belgio (E. Martens), et Dipsaci fullonum, Plezzo in agro goritiensi (Bolle). — Forte hæc forma postrema ad *Septoriam fullonum* pertinet.

450. **Septoria Xanthii** Desm. 14 Not. 1847, pag. 25. — Epiphylla; 3003
maculis nullis vel sordide flavo-griseis, indeterminatis; peritheciis exilissimis, numerosis, subgregariis, nigris, prominulis, globosis dein collapsis, poro pertusis; cirris tenuissimis albis; sporulis bacillari-linearibus, arcuatis, subacutis, 40 ≃ 2, 8-10-guttulatis, hyalinis.

Hab. in foliis languidis Xanthii strumarii pr. Treviso et Parma in Italia et in Gallia.

451. **Septoria inconspicua** B. et C. North Amer. Fungi n. 439 bis. — 3004
Peritheciis minimis in macula albida indefinita insidentibus; sporulis rectis tenuibus, 20-28 ≃ 1,5, continuis.

Hab. in foliis Plantaginis lanceolatæ in Carolina sup. et in horto botanico Parma Ital. bor.

452. **Septoria Plantaginis** (Ces.) Sacc. *Ascochyta Plantaginis* Ces. 3005
in Kl. Herb. myc. p. 1742. — Maculis griseis subbullatis, primitus orbicularibus, limitatis; peritheciis minutissimis subepidermicis; sporulis fasciculato-erumpentibus filiformi-clavatis, hyalinis, continuis (?), crustulam canam efficientibus.

Hab. in foliis Plantaginis lanceolatæ gelu tactis in Italia bor. et in Rhenogovia.

453. **Septoria plantaginea** Pass. Fungh. Parm. Sept. n. 105. — Pe- 3006
ritheciis minimis immersis, in maculis e livido exaridis vix ostiolo punctiformi erumpentibus; sporulis filiformi-clavatis rectis aut vix arcuatis, pluriseptatis, hyalinis, 55 ≃ 2,5.

Hab. in foliis languidis Plantaginis lanceolatæ, Langhirano, Parma in Italia. — β. **Plant. majoris** Sacc. Mich. II. p. 167. A typo differt sporulis brevioribus et angustioribus, nempe 30 ≃ 1-1¼, guttulatis, hyalinis; peritheciis lenticularibus, 60-70 μ. diam. — In foliis Plantaginis majoris ad utramque paginam, Cavaso Ital. bor. (A. Rossi).

454. **Septoria pamparum** Speg. F. Arg. Pug. II. n. 109. — Maculis 2007
epiphyllis, latis ½-1½ cent., albo-pallescentibus, sæpe confluentibus, indeterminatis; peritheciis centralibus, sparsis, minutis 90-100 μ. diam., lenticularibus, ostiolo impresso pertusis, membranaceis, contextu parenchymatico, olivaceo; sporulis bacillari-fusoideis, utrinque obtusiusculis, medio non v. 1-septatis, hyalinis, 12-15 ≃ 1-1,5.

Hab. in foliis vivis Pircuniæ dioicæ en el Bagnado de Flores Argentinæ.

455. **Septoria polygonina** Thüm. Pilzfl. Sibir. n. 621. — Peritheciis 3008

epiphyllis, paucis, minimis, lenticulari-applanatis, emersis, fuscis in centro maculis orbiculatis, ochroleucis, late violaceo-marginatis; sporulis numerosissimis, anguste cylindraceis, leniter curvatis, utrinque acutatis, continuis v. obscure biseptatis, hyalinis, 36-48 ≃ 1,5.

Hab. in foliis vivis Polygoni alpini in silvis subalpinis pr. fl. Baraksan Sibiriæ asiat.

456. **Septoria Polygonorum** Desm. Ann. Sc. nat. 1842, XVII. p. 108. 3009
— Epiphylla; maculis parvis, rotundatis, fulvis, in ambitu purpureis; peritheciis innatis, minutissimis, fusco-pallidis, ore orbiculari late apertis, dein concavis; sporulis filiformibus, leniter flexuosis, 4-5-guttulatis, hyalinis, 25 ≃ 1.

Hab. in foliis Polygoni Bistortæ, P. amphibii, P. Persicariæ, P. nodosæ in Italia, Belgio, Britannia, Lusitania, Amer. bor., Sibiria asiat. — β. **Sieboldii**: maculis expansis, griseis; peritheciis paullo majoribus; sporulis iisdem. — In foliis Polygoni Sieboldii culti in Italia bor.

457. **Septoria Rhapontici** Thüm. Pilzfl. Sibir. n. 813. — Peritheciis 3010
subgregariis, epiphyllis, primo tectis postremo liberatis, hemisphæricis, nigris, vix ostiolatis in maculis arescendo ochraceo-griseolis, indeterminatis, late sed indistincte purpureo-coccineo-marginatis; sporulis fusiformibus, lunulatis, utrinque acutatis, numerosis, continuis, enucleatis, hyalinis, 16-18 ≃ 2,5-3.

Hab. in foliis vivis Rhei Rhapontici in monte Borus Sibiriæ asiaticæ.

458. **Septoria Menispermi** Thüm. Pilzfl. Sibir. n. 818. — Peritheciis 3011
epiphyllis, gregariis, convexo-lenticularibus, mediis, vix prominulis, fuscis in maculis exaridis, pallide ochraceis, griseo-fusco-marginatis; sporulis bacillaribus, utrinque truncatis, arcuatulis, continuis vel obsolete uniseptatis, hyalinis, 40 ≃ 1,5.

Hab. in foliis vivis Menispermi dahurici pr. Maidaschi Sibiriæ asiaticæ.

459. **Septoria Spinaciæ** West. in Kickx Fl. crypt. Flandr. I. p. 425. — 3012
Peritheciis epiphyllis, minutissimis, brunneis, numerosis in maculis luteis, rotundatis sparsis; sporulis linearibus, utrinque attenuatis, curvatis, 4-8-nucleolatis.

Hab. in foliis languidis Spinaciæ oleraceæ in Belgio. — Dubito an huc pertineat *Sphæria* (Depazea) *Spinaciæ* Fr. S. M. II. p. 532: maculis difformibus, indeterminatis, cinereo-nigris; peritheciis sparsis, minimis, punctiformibus, nigris. In foliis Spinaciæ in Germania.

460. **Septoria Betæ** West. Exs. n. 296 et in Kickx Fl. crypt. Fl. I. p. 425. — Maculis brunneo-pallidis, centro albicantibus, brunneo-fusco-cinctis; peritheciis epiphyllis, nigris, minutis, prominulis; sporulis cylindricis rectis vel curvatis, plurinucleatis; cirris albidis. 3013

Hab. in foliis Betæ cultæ in Belgio.

461. **Septoria Atriplicis** (West.) Fuck. Symb. p. 390, Sacc. Mich. I. p. 190. *Phyllosticta Atriplicis* West. Bull. Ac. Brux. 1851, p. 397, Desm. Exs. III. n. 683. Cooke F. B. II. n. 41. — Maculis e viridi sordide ochraceis vel albidis; peritheciis sparsis amphigenis, globoso-lenticularibus, 110 μ. diam., pertusis; sporulis cylindraceis vel subfusoideis, 25–35 ≃ 4½–5, utrinque obtusiusculis, rectis vel leniter curvulis, 2–5-truncato-nucleatis vel spurie 1–3–5-septatis, hyalinis. 3014

Hab. in foliis Atriplicis patulæ et Chenopodii muralis etc. in Germania, Gallia, Italia, Belgio, Sibiria, Amer. merid. — In forma Chenopodii maculæ initio minimæ, obsoletæ, tandem latæ et distincte ochraceæ fiunt; sporulæ 20–25 ≃ 3–3½ tantum.

462. **Septoria Chenopodii** West. in Bull. Ac. d. sc. Bruxelles 1851, p. 396. — Maculis albo-viridibus dein luteis, luteo-olivaceo vel brunneo-cinctis; peritheciis sparsis, epiphyllis, numerosis, minutis, nigris; sporulis cylindricis rectis vel curvulis, utrinque obtusis, 6–10-guttulatis, hyalinis. 3015

Hab. in foliis vivis Chenopodii albi, C. muralis, viridis in Italia, Lusitania, Belgio, Germania.

463. **Septoria Iresines** Speg. F. Argent. Pug. II. n. 106. — Maculis amphigenis orbicularibus v. ellipticis, determinatis, 2–10 mill. lat., zona fulvescente cinctis, candidis, subhyalinis; peritheciis amphigenis, centralibus, densiuscule gregariis, perparvulis 60–70 μ. d., parenchymati innatis, lenticularibus, ostiolo minuto, impresso pertusis, tenui-membranaceis, contextu parenchymatico-olivaceo; sporulis filiformibus, rectis v. flexuosis, continuis v. indistincte septulatis granuloso-farctis, hyalinis, 40–50 ≃ 1–1,5. 3016

Hab. in foliis languidis Iresines celosioidis in herbosis de la Boca del Riachuelo Argentinæ.

464. **Septoria rarissima** Speg. F. Argent. Pug. II. n. 108. — Maculis parvulis ½–1 mill. diam., candidis, areola latissima, fulvescente ornatis, epiphyllis; peritheciis perpaucis, atris, minutis 80–90 μ. d., lenticularibus ostiolo impresso pertusis, tenui-membranaceis, contextu parenchymatico, olivaceo-fuligineo; sporulis cylindraceis, 3017

rectis, utrinque obtusiusculis, continuis, granuloso-farctis, 30–35 ≃ 1–1,5, hyalinis.

Hab. in foliis languidis Scleropi amaranthoidis prope Buenos Aires Argentinæ.

465. **Septoria Urticæ** Desm. et Rob. 14 Not. 1847, p. 24. — Maculis amphigenis, ochraceis, orbiculatis vel irregularibus; peritheciis epiphyllis, minutissimis, numerosis, fuscis, poro pertusis; sporulis elongatis, tenuissimis, curvatis vel flexuosis, obsolete guttulatis, 40–50 ≃ 2, hyalinis. 3018

Hab. in foliis Urticæ dioicæ et U. urentis in Gallia, Belgio, Italia, Britannia, Austria.

466. **Septoria Cannabis** (Lasch) Sacc. *Septoria cannabina* West. Bull. ac. roy. belg. II. ser. t. XII. n. 7. Sacc. Mich. II. p. 279, *Ascochyta Cannabis* Lasch in Kl. H. M. n. 1059 (1846). — Maculis variis arescendo sordide ochraceis; peritheciis sæpe epiphyllis, dense gregariis, innatis, globoso-depressis, poro amplo pertusis, 90 μ. diam.; sporulis bacillari-filiformibus, utrinque acutiusculis, 45–55 ≃ 2–2¼, rectis v. curvulis, obsolete 3-septatis, hyalinis. 3019

Hab. in foliis nondum emortuis Cannabis sativæ pr. Padova, Parma, Plezzo Ital. bor. et in Belgio.

467. **Septoria Humuli** West. in Kickx Fl. cr. Fl. I. p. 423. — Peritheciis lentiformibus, 50–60 μ. diam., epiphyllis sparsis in centro macularum irregularium, parvarum pallide fuliginosarum; sporulis filiformibus, leniter flexuosis, 25–35 ≃ 1, utrinque obtusiusculis, eguttulatis, hyalinis. 3020

Hab. in foliis languidis Humuli Lupuli in Italia, Belgio, Sibiria asiatica.

468. **Septoria Mercurialis** West. Exs. n. 488. Kickx Fl. cr. Fl. I. p. 425. — Peritheciis amphigenis, minutis, nigris, in maculis irregularibus initio cinereis dein pallide brunneis fusco-cinctis sparsis; sporulis cylindricis, utrinque truncatis, 3–6-nucleatis. 3021

Hab. in foliis Mercurialis annuæ in Belgio.

469. **Septoria Pileæ** Thüm. in Torr. Bot. Cl. Oct. 1879 et Peck 34 Rep. St. Mus. 45. — Maculis minutis, sparsis, angulosis vel suborbicularibus, definitis arescendo albidis late fusco-olivaceo-cinctis; peritheciis paucis, epiphyllis, minutis, brunneis vel nigro-brunneis, globoso-depressis; sporulis filiformibus, hyalinis, 22–28 ≃ 1,5-2, lenissime curvis, continuis. 3022

Hab. in foliis vivis Pileæ pumilæ, Sandlake et St. Louis Amer. bor. — Species Peckiana a Thümeniana non differre videtur.

470. **Septoria Aristolochiæ** Sacc. Mich. I. p. 181. — Maculis nullis; peritheciis hypophyllis, gregariis, punctiformibus, lenticularibus, 40 μ. diam., anguste pertusis; sporulis bacillari-clavulatis, curvulis, 15–20 ≃ $1^3/_4$–2, eguttulatis, hyalinis. 3023

Hab. in pag. inferiore foliorum Aristolochiæ Clematitis, Conegliano Italiæ bor. (Spegazzini).

471. **Septoria Asari** Sacc. Mich. I. p. 181. — Maculis epiphyllis e rotundo angulosis arescendo dealbatis, nigro-cinctis; peritheciis parcis punctiformibus atris; sporulis cylindraceo-fusoideis, 14 ≃ $1^3/_4$, lenissime curvis, continuis v. 1-septatis, hyalinis. 3024

Hab. in foliis Asari europæi in silva Montello Italiæ bor. — Sporulis breviusculis a genere paululum desciscit.

B) *Carpogenæ.*

472. **Septoria Catalpæ** Sacc. Mich. I. p. 179. — Maculis nullis v. obsoletis; peritheciis punctiformibus, hinc inde maculiformiter dense congregatis, lenticularibus, 60–70 μ. diam., atris, pertusis; sporulis bacillaribus, 10–15 ≃ $1^1/_2$, curvulis, utrinque obtusiusculis, continuis, eguttulatis, hyalinis. 3025

Hab. in capsulis Catalpæ syringifoliæ, Conegliano Ital. bor. (Spegazzini).

473. **Septoria Scopariæ** West. V. Not. Hypox. Belg. p. 35. — Maculis minutis, subcircularibus, 3–4 mill. latis, brunneo-pallidis, elevato-atro-marginatis; peritheciis brunneis, sparsis, parcis; sporulis cylindraceis, utrinque attenuatis, 60–80 μ. longis, 10–13-guttulato-septulatis, hyalinis. 3026

Hab. in leguminibus subvivis Spartii scoparii in Belgio.

474. **Septoria fructigena** B. et C. North Americ. Fungi n. 443 bis. — Peritheciis sparsis minimis; sporulis filiformibus sursum hamatis, 35 μ. longis. 3027

Hab. in fructibus Passifloræ in Carolina inf. Amer. bor.

475. **Septoria Ralfsii** B. et Br. Ann. N. H. n. 745, t. 15, f. 6. — Subcutanea, initio epidermide elevata tecta; centro pustularum albo; sporulis rectis, multi-(sæpius 6-)nucleatis, 30 μ. longis. 3028

Hab. in fructibus putridis Piri in Britannia. — Maculas atras irregulares format, pustulis albo-punctatis conspersas.

476. **Septoria oleaginea** Thüm. Pilze d. Elb. p. 20. — Peritheciis sparsis majusculis, semiimmersis, atris, hemisphæricis, in macula irregulari pallide ochraceo-fusca, arescente, prominula sitis; sporulis rectis v. subcurvis, acicularibus, utrinque vix rotundatis, ob- 3029

solete 2–3-septulatis, ad septa non constrictis, subinde nucleolatis, 10–15 ≃ 1,5.

Hab. in fructibus Oleæ europææ in Austria.

477. **Septoria epicarpii** Thüm. in Fungi pomicoli p. 121, Symb. myc. Austr. III. — Peritheciis gregariis vel solitariis, mediis, sine ordine dispositis, punctiformi-orbiculatis, minime elevatis vel subplanis, subimmersis, nitido-atris in maculis determinatis, primo orbiculatis demum valde irregularibus, fusco-griseis, anguste nigro-marginatis; sporulis fusoideo-cylindricis, utrinque subobtuso-acutiusculis, subrectis vel arcuatis, interdum lunulatis, obsolete bi-triseptatis, plurinucleatis, hyalinis, 22 ≃ 4–5. 3030

Hab. in epicarpio vivo Juglandis regiæ, Klosterneuburg in Austr. inf., et Parma in Ital. bor.

478. **Septoria nigro-maculans** Thüm. Symb. myc. Austr. III. n. 66. — Maculis maximis, irregularibus, sed plus minusve orbiculatis, fusco-nigricantibus non limitatis et marginatis, sæpe confluentibus; peritheciis dense gregariis, interdum confluentibus, lenticularibus, pro ratione maximis, erumpentibus, subnitidis; sporulis cylindraceis, minime curvulatis, utrinque acutato-subrotundatis, obsolete uniseptatis, enucleatis, achrois, 8–12 ≃ 2,5–3. 3031

Hab. in epicarpio fructuum maturorum Juglandis regiæ, Klosterneuburg in Austria inf.

479. **Septoria conigena** Sacc. et Roum. Sacc. Mich. II. p. 625. — Peritheciis gregariis erumpentibus, globoso-deplanatis, astomis, 140–150 μ. diam., contextu minute parenchymatico, olivaceo-fusco; sporulis bacillari-acicularibus, 50–75 ≃ $1^3/_4$–$2^1/_2$, pluriguttulatis, hyalinis, e strato proligero lutescente per basidia brevissima oriundis. 3032

Hab. in squamis conorum Abietis excelsæ in Arduennis (Libert).

480. **Septoria vestita** B. et C. North Americ. Fungi n. 449. — Peritheciis prominulis applanatis margine furfuraceo vestitis; sporulis brevioribus curvis, 12 μ. longis. 3033

Hab. in fructibus Cucurbitæ in Pensylvania, Amer. bor.

481. **Septoria leguminum** Desm. 10 Not. p. 10 Kickx Fl. Fland. p. 424, non *S. leguminum* β. *Pisorum* Kickx ibid. nec *Ascochyta Pisi* Lib. — Peritheciis punctiformibus, globosis, atris, superficialibus, in area fusca indeterminata, sparsis; sporulis bacillaribus, rectis vel vix curvis, apicibus obtusis, integris vel obscurissime septulatis, nubiloso-hyalinis, 30–45 ≃ 3,7–4. 3034

Hab. in leguminibus Phaseoli vulgaris et Pisi sativi in Gallia, Italia, Belgio.

II. *In Monocotyledoneis* [1]).

482. **Septoria Passerinii** Sacc. *Sept. murina* Passer. F. Parm. Sept. n. 149, nec Thüm. — Peritheciis longitrorsum seriatis vel sparsis, punctiformibus, atris; sporulis filiformibus rectis vel vix curvis, continuis, hyalinis, 30–45 ≃ 2. 3035

Hab. in foliis Hordei murini et in spicis Lolii perennis, Vigheffio pr. Parma Italiæ bor.

483. **Septoria arctica** B. et C. F. N. Pac. Exp. n. 125. — Peritheciis globosis immersis, siccis collabentibus; sporulis sursum attenuatis linearibus 3-7-septatis. 3036

Hab. in culmis Dupontiæ Fischeri in insula Orukamptchatne maris Pacifici.

484. **Septoria simplex** (Schrœter) Sacc. *Hendersonia simplex* Schrœter, Ein Beitrag zur Kenntniss der nordischen Pilze p. 16. — Peritheciis gregariis subrotundis, 0,1 mill. circ. diam., depressis, nigris; sporulis bacillaribus, 17–26 ≃ 2,2–3, utrinque obtusis, continuis, rectis curvulisve, fuscidulo-chlorinis. 3037

Hab. in culmis emortuis Melicæ nutantis in Lapponia, Suecia.

485. **Septoria Melicæ** Passer. F. Parm. Sept. n. 140. — Maculis rufis oblongis tandem exaridis; peritheciis tectis, sparsis, punctiformibus; sporulis bacillaribus, rectis vel curvis, apicibus rotundatis vel subinde attenuatis, 3-septatis, hyalinis, 28 ≃ 3. 3038

Hab. in foliis Melicæ unifloræ, Collecchio pr. Parma Italiæ borealis.

486. **Septoria Kœleriæ** Cocc. et Mor. Enumer. Funghi prov. Bologna II. n. 176, fig. II. — Peritheciis 40–45 μ. diam., in foliis et vaginis foliorum insidentibus, in maculis elongatis albido-lutescentibus, numerosissimis; sporulis hyalinis, filiformibus, continuis, luteolis, nunc recurvis nunc undulatis, in apicibus rotundatis, 46–54 ≃ 1,5. 3039

Hab. in foliis vaginisque Kœleriæ phleoidis pr. Bologna Italiæ borealis (Cocconi).

487. **Septoria gracilis** Passer. F. Parm. Sept. n. 148. — Maculis li- 3040

[1]) Species sequentes, in Monocotyledoneis obviæ, nempe: *Septoria arctica*, *Epigejos*, *donacina*, *littoralis*, *ophioides*, *megaspora*, *sarmenticia*, ob perithecia majuscula, caulicola et non maculicola ad *Rhabdosporam* essent ducendæ; verum ne seponerem ab aliis affinibus sed adhuc dubiis, eas ad interim hoc loco retinui.

nearibus fuscis, areola flavida mox circumdatis; perithecis minutis, tectis, atris; sporulis tenuibus brevibus, rectis vel vix arcuatis, integris, hyalinis, 10–12 ≃ 0,7.

Hab. in foliis Agropyri repentis pr. Parmam Italiæ bor.

488. **Septoria glumarum** Passer. F. Parm. Sept. n. 147. — Maculis 3041
nullis; perithecis punctiformibus sparsis epidermide tectis, atris; sporulis bacillaribus, rectis vel curvulis triseptatis, hyalinis, 20–25 ≃ 3, loculis nucleolatis.

Hab. in glumis Tritici vulgaris in agro parmensi Italiæ borealis.

489. **Septoria Tritici** Desm. IX. Not. (1842) pag. 17. — Amphigena; 3042
maculis sublinearibus longitudinalibus, albidis, atropurpureo-marginatis; perithecis innatis, minutissimis, nigris, ovatis rotundatisve, ore orbiculari apertis; cirris carneis; sporulis cylindraceo-fusoideis, leniter curvis, 60–65 ≃ 3½–5, curvulis, 3–5-septatis, hyalinis.

Hab. in foliis languescentibus Triticorum cultorum, Brachypodii, Festucæ, Glyceriæ fluitantis in Gallia, Italia, Britannia.

490. **Septoria Curtisiana** Sacc. *Septoria Tritici* B. et Curtis, North 3043
Americ. Fungi n. 441 bis, nec Desm. — Caulicola in macula pallida insidens; perithecis hysteriiformibus; sporulis tenuissimis.

Hab. in culmis Triticorum in Pensylvania (Michener).

491. **Septoria nodorum** Berk. Gard. Chron. 1845, p. 601. — Macu- 3044
lis pallide ochraceis, fusco-cinctis, depressis vel confluentibus; perithecis prominulis, initio rubescentibus dein atris; sporulis oblongis, elongatis, leniter curvatis, vel irregularibus.

Hab. in nodis culmi Triticorum ante fructuum maturitatem in Britannia.

492. **Septoria Leersiæ** Passer. F. Parm. Sept. n. 136. — Maculis 3045
nullis; perithecis superficialibus, sparsis, punctiformibus, atris; sporulis cylindrico-fusiformibus, subinde clavulatis, rectis vel leniter arcuatis, integris, crebre nucleolatis, hyalinis, 25 ≃ 2,5.

Hab. in foliis siccis Leersiæ oryzoidis, Gajone pr. Parmam Italiæ borealis.

493. **Septoria macropoda** Passer. F. Parm. Sept. n. 141, *S. graminum* f. *Sclerochloæ duræ* Thüm. Mycoth. univ. n. 593, Rabh. Fung. eur. n. 2255. — Maculis nullis; perithecis undique crebre sparsis, lenticularibus atris; sporulis filiformibus tenuissimis rectis, 3046

arcuatis vel flexuosis, continuis, basidiis crassis bulbiformibus fultis, hyalinis, 30–40 ≃ 0,7.

Hab. in omnibus partibus Sclerochloæ duræ pr. Parmam Italiæ borealis.

494. **Septoria tenella** C. et Ell. in Grevillea. — Sparsa; peritheciis 3047
atris, punctiformibus, prominulis; sporulis linearibus, rectis vel curvulis, hyalinis, 40 μ. longis.

Hab. in Festuca tenella, New Jersey Amer. bor.

495. **Septoria Poæ** Catt. Contrib. allo studio dei miceti del Riso p. 3048
4, nec Oud. — Peritheciis hypophyllis, minutis, hemisphæricis, albis, in maculis subquadratis nigris insidentibus, collabascendo concavis, virescentibus, poro pertusis; sporulis exilissimis, 50 μ. longis, luteo-hyalinis.

Hab. in foliis Oryzæ sativæ in Italia boreali.

496. **Septoria Oryzæ** Catt. Contrib. allo studio dei Miceti del Riso 3049
p. 5. — Peritheciis innato-prominulis, perexiguis, nigris, numerosis, aggregatis, poro apertis, intra nervos in series parallelas dispositis; sporulis minutissimis, cylindricis, rectis vel curvatis, triseptatis, subhyalinis, 21 ≃ 3.

Hab. in foliis et eorum vaginis Oryzæ sativæ in Ital. bor.

497. **Septoria Cynodontis** Fuck. Symb. myc. p. 389. — Peritheciis 3050
minutissimis, in stromate spurio nigro seriatim dispositis; ostiolis minutis, papillatis, prominulis; cirris amorphis, sordidis; sporulis filiformibus, longissimis, hyalinis, 50–65 ≃ 1,7–2.

Hab. in foliis Cynodontis Dactyli in Rhenogovia et Italia.

498. **Septoria Bromi** Sacc. Mich. I. p. 194. — Maculis obsoletis ex- 3051
pallentibus, elongatis; peritheciis copiosis globoso-lenticularibus, pertusis; sporulis filiformi-clavulatis, hinc acutis, illinc obtusis, 50–60 ≃ 2, leniter curvis minute pluriguttulatis, hyalinis.

Hab. in foliis Bromi mollis, Conegliano Ital. bor. (Spegazzini), in foliis glumisque Bromi mollis et Phalaridis arundinaceæ pr. Parma. — β. **Brachypodii** Sacc.: sporulis filiformibus, 30–40 ≃ 1–1,2, flexuosis. In ejusdem foliis in Gallia. — γ. **Alopecuri** Karst. Symb. XV. p. 151: maculis nullis; peritheciis 80–100 μ. diam.; sporulis dilutissime flavidis, 58–65 ≃ 2,5–3. In foliis Alopecuri pratensis in Fennia.

499. **Septoria Holci** Passer. F. Parm. Sept. n. 139. — Peritheciis 3052
in maculis parvulis griseis subrotundis sepultis, extus haud perspicuis, minutissimis globosis atris; sporulis vermiformibus triseptatis hyalinis, endoplasmate opaco, 20–25 ≃ 3.

Hab. in foliis languidis Holci lanati, Collecchio in Ital. boreali. — Ob sporulas ad *Sept. affinem* accedit, a qua differt ob peritheciorum macularumque naturam.

500. **Septoria Epigejos** Thüm. Fungi aliq. Kirghis n. X. — Peritheciis dense gregariis, lineatim dispositis, majusculis, sine macula, ellipsoideis, emersis, nigris, epidermide tectis; sporulis bacillaribus, leniter curvatis, utrinque obtusatis, 4–5-septatis, numerosis, hyalinis, 45 ≃ 3,5–4. 3053

Hab. in culmis, vaginis et foliis subaridis Calamagrostidis Epigeios, Schorlyk (Orenburg) Rossiæ.

501. **Septoria affinis** Sacc. Mich. I. p. 194. — Maculis linearibus, longitudinalibus, arescendo dealbatis, rufo-cinctis; peritheciis lenticularibus, punctiformibus, 200 μ. diam., latiuscule pertusis, nigricantibus; sporulis bacillaribus, subflexuosis, 25–30 ≃ 2–2½, utrinque obtusiusculis, 4–5-septatis, non constrictis, e hyalino dilutissime chlorinis. 3054

Hab. in foliis Brachypodii pinnati in silva Montello, et in glumis Bromi mollis in agro parmensi.

502. **Septoria Brachypodii** Passer. F. Parm. Sept. n. 142. — Maculis nullis; peritheciis hypophyllis sparsis, punctiformibus atris; sporulis bacillari-fusiformibus, obscurissime multiseptatis, plurinucleolatis, dilute melleis 45–55 ≃ 3,5. 3055

Hab. in foliis aridis Brachypodii silvatici, Vigheffio in Italia boreali.

503. **Septoria Oudemansii** Sacc. *Sept. Poæ* Oud. Aanwinsten Fl. mycolog. van Nederland p. 9, nec Catt. — Peritheciis sparsis, minutissimis; sporulis hyalinis, 1-septatis, lanceolatis, 12 ≃ 2,3. 3056

Hab. in culmis siccis Poæ nemoralis pr. Broxmeer Hollandiæ.

504. **Septoria silvatica** Pass. F. Parm. Sept. n. 143. — Maculis et peritheciis ut in *Sept. Brachypodii;* sporulis bacillaribus utrinque obtusis, integris, parce nucleolatis, hyalinis, 28–30 ≃ 2,5. 3057

Hab. in foliis siccis Brachypodii silvatici, Vigheffio pr. Parmam Italiæ borealis.

505. **Septoria Bellunensis** Speg. Dec. Mycol. 116. Sacc. Mich. II. p. 167. — Hypophylla v. amphigena; maculis exaridis, pallescentibus, primo oblongo-ellipticis, dein irregularibus sæpeque totum folium occupantibus; peritheciis minutis, 80–90 μ. diam., hinc inde sparsis, parum prominulis, contextu tenui-membranaceo; sporulis cylindraceis, 20–30 ≃ 3–4, utrinque obtusiusculis, 1–2-septatis v. continuis, hyalinis. 3058

Hab. ad folia languida Moliniæ cœruleæ, Belluno Ital. bor. (Spegazzini).

506. **Septoria Grylli** Sacc. Mich. I. p. 195. — Maculis obsoletis, ex- 3059
pallentibus; peritheciis inordinate sparsis, globoso-lenticularibus, punctiformibus, atris; sporulis filiformibus, longissimis, 75–85 ≃ 1, utrinque obtusiusculis, eguttulatis, hyalinis.

Hab. in foliis Andropogonis Grylli, Padova Ital. bor.

507. **Septoria arundinacea** Sacc. Mich. I. p. 195. — Maculis oblon- 3060
gis, amphigenis, sordide ochraceis, fusco-cinctis; peritheciis gregariis, innatis, e globoso lenticularibus, 1/7 mill. diam., nucleo albo, contextu exquisite laxe celluloso, fuligineo; sporulis bacillaribus, 60–70 ≃ 5–6, curvulis, utrinque vix attenuatis, rotundatis, 6–7-septatis, non v. lenissime constrictis, prope septa guttulas minutas foventibus, e hyalino dilute olivaceis.

Hab. in foliis Phragmitis communis, Padova Ital. bor. et in Gallia (Therry). — β. **major** Sacc.: sporulis 50–55 ≃ 4–7, hyalinis, 10–15-guttulato-septulatis, in cirrum pallide carneolum denique expulsis. In foliis languidis graminum pr. Lyon Galliæ (Therry). — β. **rhizomatum** Sacc. Mich. II. p. 345: sporulis bacillaribus 50–70 ≃ 3 1/3–4 1/2, 8–9-nucleatis, subhyalinis. In rhizomate Arundinis Donacis in Gallia australi.

508. **Septoria donacina** Sacc. Mich. I. p. 195. — Maculis nullis v. 3061
obsolete expallentibus; peritheciis sparsis, innato-erumpentibus e globoso depressis, 1/4 mill. diam., ostiolo exiguo, contextu minute parenchymatico; sporulis dense fasciculatis, filiformibus, 65–80 ≃ 1 1/2, vehementer curvatis, utrinque obtusiusculis, obsolete 6–10-guttulato-septulatis, hyalinis.

Hab. in culmis, præsertim in eorum interiore pariete, Arundinis Donacis in alveo Plavis, Susegana Ital. bor.

509. **Septoria Arundinis** (Mont.) Sacc. *Ascospora Arundinis* Mont. 306
Cent. VI. l. c., p. 47, Syll. n. 1004. — Peritheciis sparsis innato-prominulis ovoideis atris nitidis, poro apicali perforatis intus corneis; sporulis oblongo-linearibus hyalinis, specie 3-septatis, 20 ≃ 3.

Hab. in culmis Phragmitis in Gallia australi (Castagne).

510. **Septoria Phragmitis** Sacc. Mich. I. p. 195. — Maculis subova- 306
tis, arescendo dealbatis, fusco-marginatis; peritheciis punctiformibus, lenticularibus, atris; sporulis cylindraceis, utrinque attenuatis, 20–30 ≃ 1 1/2–2, curvulis, minute guttulatis, hyalinis.

Hab. in foliis Phragmitis communis, Vidòr (Treviso) Italiæ bor. — A *Septoria* (Ascospora) *Arundinis* Mont. Syll. 275

longe diversa. — β. **minor** Sacc. Mich. II. p. 626: sporulis 15-18 ≃ 1. In foliis graminum minorum, Elbeuf in Gallia (Malbranche).

511. **Septoria littoralis** Speg. in Sacc. Mich. I. p. 486. — Peritheciis 3064
5-8 gregariis primo tectis dein erumpentibus, subsuperficialibus, globulosis, atris, ostiolo papillato, sicco umbilicato, donatis; contextu membranaceo, densissime parenchymatico, fuligineo-atro; sporulis cylindraceis, rectis, vel curvulis apice rotundatis, basi subtruncatis, 50-65 ≃ 3½-4, 3-septatis, pluri-guttulatis, hyalinis in sterigmatibus, ampulluliformibus (ut hyphæ *Chalaræ Ampullulæ*), guttulatis, 10 ≃ 4-5, hyalinis.

Hab. in pagina interna vaginarum Phragmitis communis in insula Lido dicta, apud Venetias, Ital. bor.

512. **Septoria Donacis** Passer. in Rabh. Fung. eur. n. 2452. — Pe- 3065
ritheciis punctiformibus, atris in maculis parvulis, exaridis, albicantibus, sparsis vel seriatis; sporulis fusiformibus, integris, rectis vel sæpius curvis, hyalinis, 25-35 ≃ 2-2,5.

Hab. in foliis languidis Arundinis Donacis in Italia, Gallia, Lusitania. — Maculæ obsoletæ; perithecia ubique disseminata, innato-prominula, tecta; sporulæ fusoideæ 25-30 ≃ 2-2½, rarius tantum 20 ≃ 2, deorsum acutiores nubilosæ.

513. **Septoria oxyspora** Penz. et Sacc. F. Mortol. tav. IV. fig. 13. 3066
— Peritheciis in maculis aridis plus minusve extensis foliorum insitis, minutissimis, dense congregatis, nonnunquam confluentibus, depressis, ostiolatis, 100-130 μ. diam., contextu brunneo, parenchymatico; sporulis fusiformibus, utrinque attenuatis, cuspidatis, curvulis, falciformibus vel flexuosis, hyalinis, eguttulatis, 20-23 ≃ 3,5-4; basidiis brevibus, filiformibus, dein deliquescentibus.

Hab. in foliis languentibus Arundinis Donacis, Mortola Italiæ borealis (O. Penzig).

514. **Septoria ophioides** Sacc. Mich. II. p. 143. — Peritheciis spar- 3067
sis innato-erumpentibus, globoso-depressis v. horizontaliter ovoideis, nigris, ¼-⅓ mill. diam., contextu subparenchymatico ochraceo-fusco; ostiolis obtusis; sporulis bacillaribus rectiusculis, 75-105 ≃ 2, dense fasciculatis, utrinque obtusis, pluriguttulatis, denique creberrime minute septulatis, hyalinis.

Hab. in culmis vaginisque graminum minorum cum Astragalis in Persia australi (herb. patav.).

515. **Septoria graminum** Desm. Ann. Sc. nat. 1843, p. 339. *Sept. Tri-* 3068
tici Thüm. Herbar. mycol. œcon. n. 403. *S. cerealis* Passer. in

Herb. myc. œc. n. 602. *Depazea graminicola* Berk. Ann. N. H. n. 103. — Peritheciis in maculis plus minus elongatis, expallentibus, sæpius anguste fusco-marginatis, nervis limitatis, seriatis vel subsparsis, tectis, ægre nisi lente perspicuis, fuscis; sporulis tenuissimis, rectis vel sæpius curvis aut flexuosis, integris, minute nucleolatis, 55–75 ≃ 1–1,3.

Hab. in foliis Graminacearum, præcipue Bromi sterilis, Brachypodii silvatici, Tritici vulgaris, Panici etc. in Gallia, Italia, Britannia, Austria, America.

516. **Septoria Maydis** Schulz. et Sacc. Micr. Slav. n. 57. Schulz. Ill. Fung. Slav. n. 704. — Peritheciis subgregariis epidermide velatis, globulosis, vix erumpentibus 0, 1 mill. diam.; sporulis cylindraceis, utrinque rotundatis, medio guttulatis, 20–22 ≃ 2, hyalinis. 3069

Hab. in vaginis emortuis Zeæ Maydis prope Vinkovce Slavoniæ.

517. **Septoria punctoidea** Karst. Hedw. 1884. p. 38. — Peritheciis subgregariis, subcutaneis, demum erumpentibus, sphæroideis, poro pertusis, atro-fuscis, humectatis fusco-pallentibus, 40–60 μ. diam.; sporulis fusoideo-bacillaribus, curvulis vel rectis, guttulatis, hyalinis, 12–16 ≃ 1,5–2. 3070

Hab. in foliis aridis Caricis misandræ ad Adventbay Lapponiæ (Th. Fries).

518. **Septoria caricinella** Sacc. et Roum. Reliq. Libert. IV. n. 152. — Maculis oblongis albicantibus fusco- v. rufo-marginatis; peritheciis innatis globoso-lenticularibus; sporulis filiformibus flexis v. rectiusculis, 4–6-guttatis, continuis, 60–70 ≃ 1,5, hyalinis. 3071

Hab. in foliis Caricis depauperatæ in Arduennis (Libert). — A *Septoriis caricicola, Caricis* et *riparia* prope diversa.

519. **Septoria gracillima** (Cooke) Sacc. *Darluca gracillima* Cooke Præcursor Monogr. Henders. p. 26. — Peritheciis.....; sporulis linearibus, rectis, multinucleatis, 30 ≃ 2. 3072

Hab. in foliis Caricis in Britannia (?).

520. **Septoria Caricis** Passer. Funghi Parm. Sept. n. 135. — Peritheciis minutissimis tectis sparsis atris; sporulis cylindricis rectis vel vix curvis aut flexuosis, continuis, hyalinis, intus granulosis, 32–40 ≃ 2,5. 3073

Hab. in foliis siccis Caricis divulsæ, Parma in Ital. bor.

521. **Septoria caricicola** Sacc. Mich. I. p. 196. — Maculis subcircularibus, variis arescendo dealbatis, latiuscule brunneo-marginatis; peritheciis punctiformibus, atris; sporulis cylindraceis, utrinque ob- 3074

tusis, 50 ≃ 4, leniter curvis, 7-8-septulatis minuteque guttulatis e hyalino dilute flavidulis.

Hab. in foliis Caricis ripariæ, Padova in Ital. bor. — Paullulum ad *Hendersoniam* vergit.

522. **Septoria riparia** Passer. F. Parm. Sept. n. 134. — Peritheciis 3075
sparsis subglobosis atris, primo tectis dein erumpentibus et epidermide rupta cinctis; sporulis filiformibus vix curvis, continuis, minutissime nucleolatis hyalinis, 37-57 ≃ 2.

Hab. in foliis siccis Caricis ripariæ, Parma in Ital. bor.

523. **Septoria lineolata** Sacc. et Sp. Mich. II. p. 279. — Maculis ob- 3076
soletis; peritheciis lineari-seriatis, laxiusculis, e globoso depressis, $^1/_8$-$^1/_6$ mill. diam., pertusis, initio velatis dein semierumpentibus; sporulis filiformi-acicularibus, deorsum leniter incrassatis rotundatisque, 60-70 ≃ $1^3/_4$-2, hyalinis.

Hab. in foliis arescentibus Caricis glaucæ etc., Conegliano in Ital. bor. et prope Rouen in Gallia. — A *S. caricicola*, *S. riparia*, *S. Caricis* dispositione peritheciorum formaque sporularum diversa.

524. **Septoria Debauxii** Roum. F. Gall. n. 27. — Peritheciis innatis, 3077
globulosis, atris, punctiformibus, in maculis subcircularibus candidis v. albidis, brunneo-cinctis sitis, paucis; sporulis linearibus, leniter arcuatis, in cirrum album exeuntibus.

Hab. in calamis Scirpi littoralis in Gallia merid.

525. **Septoria Scirpi** Sacc. Mich. I. p. 196. — Maculis indetermina- 3078
tis expallentibus; peritheciis gregariis punctiformibus, atris; sporulis bacillaribus 38-40 ≃ 3-$3^1/_2$, utrinque obtusiusculis, curvulis, 3-septatis, hyalinis.

Hab. in calamis Scirpi lacustris ad lacum Benacum Ital. bor., socia *Sphærellæ Scirpi-lacustris* cujus forte spermogonium.

526. **Septoria Peckii** Sacc. *Cryptosporium Scirpi* Peck 25 Rep. p. 3079
84. — Peritheciis gregariis subglobosis v. subquadrangularibus, nigris, in macula pallida sitis; sporulis elongato-fusoideis, leniter curvis, hyalinis, 15-18 μ. longis.

Hab. in foliis calamisque Scirpi fluviatilis, Castleton Rensselaer county Amer. bor.

527. **Septoria lacustris** Sacc. et Thüm. Mich. II. p. 347. — Peri- 3080
theciis gregariis epidermide jugiter tectis, globoso-lenticularibus, $^1/_4$-$^1/_3$ mill. diam., poro pertusis, contextu parenchymatico pure nigricante; sporulis bacillari-acicularibus, curvulis, 75-85 ≃ 3-$3^1/_2$, utrinque attenuato-obtusiusculis, initio pluriguttulatis, dein (spu-

rie?) 10-12-septatis e hyalino dilutissime fuscidulis, humiditate mox in cirros filiformes, spiraliter tortos fumosos eximie protrusis.

Hab. in calamis Scirpi lacustris diu aqua immersis prope Lyon in Gallia (Therry).

528. **Septoria Scirpoidis** Passer. Funghi Parm. Sept. n. 133. — Peritheciis crebre sparsis, tectis subglobosis atris, pustulatim epidermidem sublevantibus, non erumpentibus; sporulis oblongo-clavatis, basidiis filiformibus fultis, integris, hyalinis, 25-30 ≃ 5, intus granulosis, opacis. 3081

Hab. in apice calami Scirpi Holoschœni, S. Ruffino pr. Parmam in Italia bor.

529. **Septoria Holoschœni** (Mont.) Pass. Funghi Parm. Sept. n. 132, *Ascospora Holoschœni* Mont. Syll. n. 1003 et Cent. VI. n. 34, p. 46. — Peritheciis sparsis, epidermide longitrorsum fissa tectis, subsphæricis fusco-atris, ostiolo brevissimo pertenui erumpente instructis, intus albis; sporulis linearibus rectis aut curvulis, 8-12-septatis, obscure nucleolatis, 40-55 ≃ 3, utrinque obtusis. 3082

Hab. in calamis Scirpi Holoschœni præcipue ad summitatem arescentem, Perpignan et Montaud Galliæ (Mont. Cast.) et pr. Parmam Ital. (Passerini).

530. **Septoria narvisiana** Sacc. *Septoria Holoschœni* Sacc. Mich. I. p. 196, non Mont. — Maculis obsoletis; peritheciis globulosis, minutissimis, innato-erumpentibus; sporulis cylindraceo-fusoideis, 50 ≃ 4, utrinque acutis, 5-7-septatis, non constrictis, curvulis dilutissime olivaceis. 3083

Hab. in calamis Scirpi Holoschœni in alveo Plavis, Narvesa Ital. bor. — Paullulum ad *Hendersoniam* vergit. An status spermogonicus *Leptosphæriæ Micropogonis* Sacc.? Sporulis subfusoideis olivaceis a *Sept. Holoschœni* certe differt.

531. **Septoria Arisari** (Dur. et Mont.) Sacc. *Rhabdospora Arisari* Dur. et M. Fl. Alg. I. p. 594, Mont. Syll. crypt. p. 278. — Amphigena; peritheciis minutis atris opacis in maculas nigrescentes irregulares aggregatis, 50 μ. d.; sporulis linearibus rectis, 15-20 ≃ 1,6. 3084

Hab. in foliis Arisari vulgaris in Algeria.

532. **Septoria Ari** Desm. 14 Not. 1847, p. 18, Pass. F. Parm. Sept. n. 125. — Peritheciis punctiformibus, atris, in maculis subcircularibus, exaridis candidis, fusco-cinctis aggregatis; sporulis filiformibus utrinque leniter attenuatis, rectis vel curvulis, continuis, plurinucleolatis, flavidulis, 42-50 ≃ 2,5. 3085

Hab. in foliis Ari maculati et Ari italici in Gallia et in Italia.

533. **Septoria Callæ** (Lasch) Sacc. *Rhabdospora Callæ* (Lasch) Rabenh. Herb. Myc. II. n. 554. *Depazea Callæ* Lasch H. M. n. 368 (diagnosim non vidi). 3086

Hab. in foliis Callæ in Germania.

534. **Septoria Junci** Desm. 21 Not. 1853, p. 1. — Culmigena; peritheciis immersis, numerosissimis, 150–200 μ. diam. subseriatis, fuscis, globoso-conicis, demum depressis, epidermide canescenti tectis, ostiolo brevissimo prominulo pertuso instructis; nucleo albido aut argillaceo; sporulis magnis, longissimis, 50–80 ≃ 3, subrectis vel flexuosis, 12–20-nucleatis, nucleis opacis. 3087

Hab. in culmis exsiccatis Junci maritimi et articulati in Gallia.

535. **Septoria Rhynchosporæ** Dur. et Mont. Fl. Alg. I. p. 594. *Rhabdospora Rhynchosporæ* Mont. Syll. Crypt. p. 278. — Peritheciis minutissimis 80 μ. diam., erumpenti-innatis atris; sporulis oblongo-fusiformibus, obscure septatis, septo medio evidentiori, 10 ≃ 3,5. 3088

Hab. in foliis Rhynchosporæ laxæ in Algeria.

536. **Septoria menispora** B. et Br. Ann. N. H. n. 425. — Peritheciis epidermide tectis, ellipsoideis, nigris; ostiolo prominulo erumpente; sporulis longissimis, curvatis, utrinque acutis, pluri-nucleolatis, nucleolis non æquidistantibus. 3089

Hab. in foliis Typhæ latifoliæ, Spye Park in Britannia et Liege in Belgio.

537. **Septoria angusta** (Cooke) Sacc. *Darluca angusta* Cooke Præc. Monogr. Henders. p. 26. — Peritheciis.....; sporulis subfusiformibus, rectis vel curvulis, multinucleatis, pallide olivaceis, 30 ≃ 3. 3090

Hab. in Typha in America boreali.

538. **Septoria filispora** (Cooke) Sacc. *Darluca filispora* Cooke Præc. Monogr. Henders, p. 25. — Peritheciis.....; sporulis filiformibus, multinucleatis, flaveolis, 60 ≃ 2. 3091

Hab. in Typha in specimine Desmazierii cum *Hendersonia Typhoidearum* commixta, in Gallia.

539. **Septoria Sparganii** Passer. Funghi Parm. n. 124. — Peritheciis minimis sparsis punctiformibus acutis atris; sporulis subfusiformibus rectis vel curvulis, pluriseptatis, hyalinis, pallidissime flavidis, 43–45 ≃ 2,5. 3092

Hab. in foliis aridis Sparganii ramosi, Parma in Ital. bor.

540. **Septoria Alismatis** Oudem. Mat. Myc. Ned. p. 4. Hedwigia 1876, 3093

p. 101. — Maculis fuliginosis subcircularibus demum centro griseo-albicantibus in utraque pagina visibilibus; peritheciis minimis atris, vix lente acriori conspicuis, magis hypophyllis; sporulis cylindricis, rectis, continuis ad polos nucleatis, medio septatis hyalinis, 15–18 ≃ 3.

Hab. in foliis languidis Alismatis Plantaginis, Collecchio in Italia, pr. Driebergen Hollandiæ et in Austria. — Inter *Septoriam* et *Ascochytam* ambigit. An *Depazea Alismatis* West. huc spectat? *Septoria Alismatis* Thüm. Herb. eadem est.

541. **Septoria hydrophila** Sacc. et Sp. Mich. I. p. 195. — Maculis nullis; peritheciis cladogenis, sparsis, punctiformibus, 120–150 μ. d., lenticularibus, pertusis, contextu laxiusculo parenchymatico, fuligineo; sporulis bacillaribus utrinque attenuatis, 90 ≃ 3, curvatis, pluriguttulatis hyalinis, basidiis filiformibus brevibus suffultis. 3094

Hab. in caulibus Alismatis Plantaginis, Conegliano in Italia boreali (Spegazzini).

542. **Septoria alismatella** Sacc. Mich. I. p. 196. — Maculis nullis v. indeterminatis; peritheciis caulogenis e globoso depressis, subcutaneis, 70 μ. diam., pertusis; sporulis bacillaribus, rectiusculis. 15 ≃ 1, utrinque acutatis, eguttulatis, hyalinis. 3095

Hab. in caule Alismatis Plantaginis in silva Montello Ital. bor. — A *Septoria Alismatis* Oud. prorsus aliena.

543. **Septoria Colchici** Passer. F. Parm. Sept. n. 131. — Peritheciis amphigenis in maculis oblongis arescentibus dense sparsis, epidermide tectis, fuscis; sporulis bacillaribus rectis vel curvulis, continuis, intus granulosis, hyalinis, 20–25 ≃ 1,7. 3096

Hab. in foliis Colchici alpini in Apennino prope *la Cisa* in Italia.

544. **Septoria sublineolata** Thüm. Pilzfl. Sibir. n. 116. — Peritheciis epiphyllis, sparsis, sublinearibus, mediis vix emersis, planis, in maculis lineariformibus, exaridis, albidis, fusco-marginatis; sporulis cylindraceo-fusiformibus, pauci-curvatis, utrinque rotundo-acutatis, nucleatis, hyalinis, 60 ≃ 4. 3097

Hab. in foliis vivis Veratri nigri, Minussinsk in Sibiria asiatica.

545. **Septoria Asphodeli** Mont. in Ann. Sc. nat. t, XI. p. 48 (1849) et Syll. Crypt. n. 1002. — Peritheciis epidermide innatis subtectis globoso-ovoideis sparsis, ostiolo prominulo atro albo-pulverulento; sporulis oblongo-linearibus, 20 ≃ 7, hyalinis, utrinque 1-guttulatis, hyalinis. 3098

Hab. in caulibus Asphodeli fistulosi in Galloprovincia (Castagne). — «An potius *Phoma?*»

546. **Septoria asphodelina** Sacc. *Septoria Asphodeli* West. Bull. Ac. Belg. Ser. II. f. XII. n. 7. — Maculis epiphyllis, magnis, rotundatis, pallido-brunneis, centro albicantibus, fusco-cinctis; perithecis minutis, nigris, sparsis; cirris albis; sporulis cylindricis rectis, 30 ≃ 2,5. 3099

Hab. in foliis languidis Asphodeli albi in Belgio (R. P. Dumont).

547. **Septoria ornithogalea** Oud. Aanw. Fl. myc. Nederland VI. p. 6. — Maculis pallidioribus, semioblongis, ad latera foliorum emarcidorum sitis; perithecis amphigenis, parvis, nigris, sparsis, unico strato cellularum formatis, poro apicali minuto apertis, nucleo roseo; sporulis singulis hyalinis, linearibus vel lineari-acuminatis, septatis (?), 50-70 ≃ 2-3. 3100

Hab. in foliis Ornithogali umbellati pr. Lugdunum Batavorum (Leyden) Hollandiæ. — A *Sept. Ornithogali* differre videtur ob perithecia maculas foliorum laterales incolentia, quæ in *Sept. Ornithogali* foliorum apices arescentes semper occupant.

548. **Septoria Ornithogali** Passer. in Thüm. Mycoth. Univ. n. 496. Flora 1877, N. 13, Spegazzini Decades mycologicæ italicæ n. 20. — Peritheciis punctiformibus fuscis in folii tractu superiore plus minus longo exarido sparsis; sporulis filiformibus, utrinque leniter attenuatis, rectis vel curvulis, sæpe spurie pluriseptatis, hyalinis, in cirrum longum albidum vel flavidum ejectis, 31-65 ≃ 2,5. 3101

Hab. in foliis Ornithogali umbellati, Parma et Coneglia-no in Italia bor.

549. **Septoria Scillæ** West. in Kichx Flor. Fl. I. p. 423. Fuck. Symb. p. 389. — Peritheciis subimmersis, planis, perforatis, atris; cirris contortis, albis; sporulis filiformibus, longissimis, curvatis vel rectis, hyalinis, 50-75 ≃ 2,7, spurie 5-6-septatis. 3102

Hab. in apice foliorum nondum emortuorum Scillæ bifoliæ, S. maritimæ, S. nutantis, Muscari comosi in Belgio, Germania, Italia, Lusitania.

550. **Septoria Urgineæ** Pass. et Beltr. F. Sicul. n. 25. — Peritheciis minutis, superficialibus atris, subglobosis, inter folii nervos gregariis et maculas fuscas, striæformes, protractas formantibus; sporulis fusiformibus rectis, medio septatis, hyalinis, 35 ≃ 5. 3103

Hab. in foliis languidis Urgineæ Scillæ, Licata in Sicilia.

551. **Septoria Alliorum** West. Bull. Acad. Brux. 1851, p. 396, Kickx 3104

F. cr. Fl. I. p. 423. — Peritheciis epiphyllis, semiimersis, rufo-brunneis, in maculis irregularibus, subviridibus centro albicantibus, sparsis; sporulis cylindricis, flexuosis, utrinque obtusis, 4-6-nucleolatis.

Hab. in foliis Allii Porri etc. in Belgio et Ronchi in Italia boreali.

552. **Septoria alliacea** Cooke in Grevillea. — Sparsa, punctiformis; peritheciis immersis, tectis, vix distinctis; sporulis filiformibus, flexuosis, 50-60 μ. longis. 3105

Hab. in foliis Allii specie, Belgaum Indiæ orientalis (J. Hobson).

553. **Septoria viridi-tingens** Curt. in Peck Rep. on the St. Mus. New York. — Maculis obscuris, vagis, confluentibus, viridi-tinctis v. viridi marginatis; peritheciis numerosis, minutis, succineis, molliusculis, raro dein nigricantibus; sporulis continuis filiformibus, 25-30 μ. longis. 3106

Hab. in foliis Allii tricocci in Mont. Helderberg in America boreali.

554. **Septoria Yuccæ** (Schwein.) Sacc. *Sphæria Yuccæ-gloriosæ* (Schwein.). Curr. Comp. Sphær. p. 286, t. 49, fig. 208. — Peritheciis innatis, epidermide cinerea secedente tectis, globulosis; ostiolis punctiformibus; sporulis hyalinis, linearibus, 25-45 μ. longis, non septatis. 3107

Hab. in foliis emortuis Yuccæ gloriosæ in Pensylvania Amer. bor. — Cfr. Syll. II. p. 399.

555. **Septoria yuccogena** Sacc. *Septoria Yuccæ* Thüm. Contr. Funghi Litor. n. 200 t. 1, fig. 6, nec Schw. — Peritheciis amphigenis, sparsis, conicis, prominulis, minutis, vel etiam subgregariis, nigris; sporulis cylindraceis, utrinque acutatis, enucleatis, uniseptatis, hyalinis, 10 ≃ 2,5-3. 3108

Hab. ad folia emortua Yuccæ gloriosæ in agro goritiensi. — «An potius *Ascochyta?*»

556. **Septoria megaspora** Speg. Arg. Pug. I. p. 188. — Peritheciis majusculis, 250-325 μ. diam., globosis, subcarbonaceis, levibus, atris, parenchymati foliorum immersis, sursum ostiolo conoideo erumpentibus, sparsis, maculis nullis; sporulis cylindraceis, crassis, rectis vel vix curvulis, utrinque obtusis, primo continuis, granuloso-farctis, guttulatis, dein 1-septatis, non vel vix constrictis, hyalinis, 60-100 ≃ 10-12. 3109

Hab. in foliis emortuis Agaves Americanæ ubique vulgatissima in campestribus agri bonaerensis Argentinæ.

557. **Septoria Bellynckii** West. Bull. Acad. Brux. Ser. II. t. XII. n. 7. 3110
— Maculis nullis; peritheciis numerosis, nigris, nitidis, punctiformibus in areis arescentibus vage sparsis; cirris albidis; sporulis cylindricis rectis vel leniter curvatis, 15 ≃ 1,5.

Hab. in foliis Aloës variegatæ, Namur in Belgio (Bellynck).

558. **Septoria Erythronii** Sacc. et Sp. Mich. I. p. 197. — Maculis 3111
subcircularibus sinuosisque, albicantibus; peritheciis gregariis, punctiformibus, lenticularibus, prominulis, 80–100 μ. diam., subastomis; contextu minute parenchymatico subochraceo; sporulis filiformibus, subtortuosis, 45–50 ≃ 4, utrinque acutiusculis, plurigut-tulatis obsoleteque septatis, hyalinis.

Hab. in foliis Erythronii Dentis-canis, Conegliano in Italia boreali.

559. **Septoria Trillii** Peck Bot. Gaz. 1879, p. 170. — Maculis sub- 3112
orbicularibus, albidis; peritheciis numerosis, in centro macularum præcipue aggregatis, nigris; sporulis filiformibus, rectis vel curvulis, 20–40 μ. longis.

Hab. in foliis vivis Trillii, Illinois Amer. bor.

560. **Septoria brunneola** (Fr.) Niessl Mähr. Crypt. p. 35 Sacc. Mich. 3113
I. p. 197. *Sphæria brunneola* Fr. S. M. II. p. 526. — Peritheciis gregariis, globosis, minimis, subastomis e macula oblonga brunnea nigricante emergentibus; sporulis filiformibus, 75–100 ≃ 2, continuis hyalinis.

Hab. in foliis Convallariæ majalis in Suecia, Italia, Moravia.

561. **Septoria Convallariæ** West. Les crypt. d'après leurs stat. nat. 3114
p. 40 (nomen).

Hab. in foliis Convallariæ majalis et Polygonati in Belgio et Sibiria.

562. **Septoria carpophila** Sacc. et Roum. Reliq. Lib. Ser. IV. n. 153. 3115
— Peritheciis gregariis, epidermide velatis, globoso-depressis, $^1/_5$ mill. diam., pertusis; sporulis anguste fusiformibus, acutis, curvis, continuis, hyalinis, 27–30 ≃ 3.

Hab. in baccis Convallariæ majalis putrescentibus.

563. **Septoria Maianthemi** West. Exs. n. 940, Kickx Fl. crypt. Fl. 3116
I. p. 429. — Peritheciis hypophyllis, brunneo-nigricantibus, dein applanatis, in maculis latis numerosis indeterminatis, griseo-plumbeis, griseo-nigris, sparsis; sporulis cylindricis, subinde apice vel basi incrassatis, utrinque obtusis, 6-9-nucleolatis, 50–70 ≃ 3; cirris albidis.

Hab. in foliis Maianthemi bifolii prope Louvain Belgii (Ed. Martens). — An huc spectat *Sphæria crispans* in Wallr. Fl. crypt. n. 3711?

564. **Septoria Paridis** Passer. F. Parm. Sept. n. 128. — Maculis parvis irregularibus albo-exaridis ferrugineo-marginatis; perithecis punctiformibus atris; sporulis filiformibus integris rectis vel leniter curvis, 20 = 1. 3117

Hab. in foliis Paridis quadrifoliæ in Apennino prope *la Cisa* Ital. bor.

565. **Septoria sarmenticia** Sacc. Miscell. Myc. F. Gall. n. 2249. — Perithecis gregariis, globosis, papillatis, 1/6 mill. diam., subepidermicis; sporulis bacillari-fusoideis, utrinque acutis, continuis, hyalinis, 7–11 = 1,5. 3118

Hab. in caule Tami communis, Rouen in Gallia (Malbranche).

566. **Septoria Tami** West. Bull. Ac. Brux. t. XIX. n. 9. — Maculis epiphyllis, irregularibus, rotundatis vel angulosis, linea incrassata rugosa limitatis, purpureo-fusco-cinctis; perithecis immersis, minutis, raris, sparsis; sporulis cylindricis, brevibus, utrinque obtusis, 7–8-globoso-nucleolatis. 3119

Hab. in foliis Tami communis, Namur in Belgio.

567. **Septoria smilacina** Dur. et Mont. Fl. Alger. I. p. 591. Mont. Syll. n. 1006. — Hypophylla; maculis nullis; perithecis immersis, prominulis, ovoideis, sparsis pro ratione magnis, apice albo-cinctis, nucleo niveo farctis; sporulis bacillaribus, rectis, hyalinis, obtusis, 20–40 = 2,7 nucleolatis dein 4-septatis. 3120

Hab. in foliis exsiccatis Smilacis mauritanicæ, in Algeria Africæ et Coimbra Lusitaniæ.

568. **Septoria Smilacinæ** Ell. et Mart. Amer. Nat. 1882, p. 1001. — Maculis cinereis, oblongis, fusco-nigricantibus, marginatis; perithecis pallido-brunneis, conoideis, sæpe epiphyllis; sporulis hyalinis, filiformibus, guttulatis, 63–114 = 3. 3121

Hab. in foliis Smilacinæ, Chester in Pensylvania.

569. **Septoria Gladioli** Passer. in Rabh. Fung. eur. 1956, Funghi Parm. Sept. n. 127. — Perithecis punctiformibus, atris in maculis exaridis fulvo-marginatis; sporulis cylindricis subrectis, continuis, hyalinis, cirrose ejectis. 3122

Hab. in foliis Gladioli segetum, Parma in Italia, et Gladioli gandavensis, Coimbra in Lusitania.

570. **Septoria murina** Thüm. Contr. Myc. Lusit. n. 387. — Perithe- 3123

ciis dense gregariis, epiphyllis, murinis, minutissimis, globulosis in maculis parvis, orbiculatis vel oblongis, tuberculatis, griseis, vix obscurius cinctis; sporulis numerosis, bacillaribus, tri-quinqueseptatis, ad septa constrictulis vel quinqueguttulatis, rectis vel leniter arcuatis, hyalinis, 8–14 ≃ 3.

Hab. in foliis vivis Iridis fœtidissimæ, Coimbra in Lusitania.

571. **Septoria Epipactidis** Sacc. Mich. I. p. 197. — Maculis oblongis, arescendo albicantibus: peritheciis lenticularibus, atris, pertusis; sporulis cylindraceo-bacillaribus, 28–30 ≃ 2, utrinque obtuse attenuatis, curvatis, 4–6-guttulatis, hyalinis. 3124

Hab. in foliis Epipactidum, Cadore in Ital. bor. (S. Venzo).

572. **Septoria Gymnadeniæ** Thüm. Pilzfl. Sibir. n. 817. — Peritheciis amphigenis, submagnis, dense gregariis, exsertis, globoso-conicis, saturate fuscis vel nigris in maculis sordide viridibus, indeterminatis latissime sordide albo-viridi-marginatis; sporulis fusiformibus, apice acutatis et curvatis, uni-biseptatis vel pluriguttulatis, hyalinis, 24–26 ≃ 3, basidiis brevibus, irregularibus suffultis. 3125

Hab. in foliis subaridis Gymnadeniæ conopseæ in silvis Ssamodourowha Sibiriæ asiat. — A *Septoria Orchidearum* West. et *S. Epipactidis* Sacc. characteribus indicatis diversa.

573. **Septoria Orchidearum** West. Exs. n. 638, Kickx Fl. cr. Fl. I. p. 423. Sacc. Mich. I. p. 197, *Sept. Winteri* Kunze in Rab. F. Eur. — Maculis obsolete expallentibus, brunneis, subinde areola pallidiore cinctis; peritheciis epiphyllis, minutis, luteo-succineis, dein brunneis vel nigris; sporulis bacillaribus, utrinque acutis, 18–22 ≃ 1, rectiusculis, hyalinis, 6–8-nucleolatis. 3126

Hab. in foliis vaginisque Orchidis latifoliæ, O. Morionis, Listeræ ovatæ, Platantheræ bifoliæ in Belgio, Italia, Gallia.

574. **Septoria Martineziæ** Thüm. Contr. Myc. Lusit. n. 402. — Peritheciis sparsis, solitariis, oblongis, subemersis, hemisphæricis, mediis, atris, epiphyllis, in maculis irregularibus, arescendo ochraceis, spadiceo-cinctis, primo fuligineo-brunneis; sporulis bacillaribus, rectis, utrinque obsolete uniseptatis vel fere continuis sed semper subguttulatis, achrois, 32 ≃ 4. 3127

Hab. ad folia languida Martineziæ caryotæfoliæ in calidariis horti botanici, Coimbra in Lusitania (Moller).

III. *Acotyledoneis et in Insectis.*

575. **Septoria Equiseti** Desm. in Moug. Stirp. Vog. n. 1264. *Libertella Equiseti* Desm. 14 Not. p. 179. — Maculis minutis, ferrugineis; pustulis sparsis, parvulis, subhemisphæricis, epidermide tectis, dein poro pertusis; sporulis linearibus curvatis, utrinque obtusis, hyalinis, pluriguttulatis, 40 ≃ 4. 3128

Hab. in caulibus languidis Equiseti arvensis in Gallia. — Quum cl. Desmazières ad *Septoriam* suam *Libertellam Equiseti* serius transtulerit, perithecia adesse censendum est.

576. **Septoria detospora** Sacc. Mich. I. p. 529. — Peritheciis laxe gregariis, epidermide æquali velatis, lentiformibus, diam. ½ mill.; sporulis bacillaribus, flexuosis, 60 ≃ 3, pluriguttulatis, hyalinis, prope basim processu laterali brevi inter se connexis. 3129

Hab. in caule Equiseti limosi pr. Saintes in Gallia (Brunaud).

577. **Septoria mirabilis** Peck 25 Rep. p. 87. — Maculis luteis vel brunneis angulosis, venulis foliorum limitatis; peritheciis hypophyllis, minutis, poro rotundo pertusis, pallidis vel luteis; cirris longis, albis, fragilibus; sporulis latis, simplicibus, oblongo-obovatis, uno apice acutioribus vel subfusiformibus, 32-40 ≃ 12. 3130

Hab. in frondibus Onocleæ sensibilis, Sandlake Amer. bor. — « An potius ad *Nectrioideas* spectans? ».

578. **Septoria aquilina** Passer. in Erb. critt. it. ser. II. n. 817, Funghi Parm. Sept. n. 150. — Peritheciis tectis, vix epidermidem in pagina supera sublevantibus, luce transversa punctum pellucidum sistentibus; sporulis baculiformibus clavatis, crebre articulatis, extremo altero acuto, altero rotundato, hyalinis, opacis, 50-65 ≃ 4, loculis interdum guttulatis. 3131

Hab. in frondibus aridis brunneo-maculatis Pteridis aquilinæ, Collecchio et Sala in Italia bor.

579. **Septoria Scolopendrii** Sacc. Mich. I. p. 197. — Maculis indeterminatis arescendo ochraceo-rufescentibus obsoletisve; peritheciis hinc inde aggregatis, punctiformibus, lenticularibus, 50-80 μ. diam., anguste pertusis; contextu denso, atro-olivaceo; sporulis filiformibus, rectis curvulisve, 24-28 ≃ 1½-2, utrinque obtusiusculis, guttulatis, hyalinis. 3132

Hab. in fronde Scolopendrii officinarum, Selva Conegliano in Ital. bor. (Spegazzini). — An *Sept. Scolopendrii* Lac. in

Rev. Myc. II. p. 62 (in ejusdem foliis, Havre Galliæ) huc spectet, deficiente diagnosi, non liquet.

580. **Septoria thecicola** B. et Br. Intell. Obs. 1863, p. 9, f. 1, *Sphæropsis thecicola* Berk. Ann. N. H. n. 424. — Peritheciis superficialibus, convexis, collabentibus, nigris, rugosis poro pertusis; sporulis delicatis, linearibus, rectis, longitudine variis. 3133

Hab. in capsulis Polytrichi piliferi, Aberdeen Britanniæ.

581. **Septoria pterophila** Sacc. Mich. I. 93, Fungi ital. tab. 90. — Peritheciis laxe sparsis, e globoso lenticularibus, 100–150 μ. diam., innato-prominulis, ostiolo impresso indistincto, atro-fuligineis; sporulis cylindraceo-vermicularibus utrinque obtusiusculis, 45–50 ≃ 3 ¼–4, 6–7-septatis, ad septa non constrictis, e hyalino chlorino-olivaceis. 3134

Hab. in alis putrescentibus Cicadæ Orni, Conegliano in Ital. bor. (Spegazzini).

PHLEOSPORA Wallr. Fl. crypt. With. Rust. Cab. p. 7. (Etym. *phleo* effundo, et *spora*), *Septorella* Berk. *Fusarium* Auct. p. p. — Perithecia imperfecte evoluta, late pertusa, subcuticularia, e contextu matricis mutato plerumque formata. Sporulæ fusoideo-bacillares, crassiusculæ, 2-pluriseptatæ, hyalinæ. — Ad *Septoglœum* inter Melanconieas valde accedit.

1. **Phleospora Aceris** (Lib.) Sacc. *Septoria Aceris* (Lib.) B. et Br. Ann. N. H. n. 432, Sacc. Mich. I. p. 527, *Ascochyta Aceris* Lib. Exsicc. n. 54, *Sept. acericola* Desm. 21 Not. p. 11. — Peritheciis genuinis nullis, sed nucleis minutis, brunneis, acervulatis, sub-epidermicis; sporulis fusoideo-clavatis, 22–28 ≃ 5, 3-septatis, non constrictis, hyalinis; cirris minutis pallidis. 3135

Hab. in foliis Aceris campestris, Platanoidis et Pseudo-Platani in Italia, Britannia, Gallia, Austria. — Sec. Passer. Sept. Parm. n. 19, sporulæ 2–3-septatæ, 33–36 ≃ 2. An ergo species diversa? — *Sept. castanicola* et *Sept. quercicola* affines sunt sed perithecia magis distincta videntur.

2. **Phleospora Mori** (Lév.) Sacc. *Septoria Mori* Lév. in Ann. Sc. nat. 1846. V. p. 279, Sacc. Mich. I. p. 175, *Fusarium maculans* Béreng. Atti Congr. Mil. 1844, *Fusisporium Mori* Mont. Bull. Soc. Agr. 1853. — Maculis albidis vel ochraceis brunneo-cinctis; perithecis innatis plerumque epiphyllis globosis, gregariis, sæpe parum distinctis; sporulis cylindricis, curvulis, sursum attenuatis, utrin- 3136

que obtusiusculis, 3-septatis guttulatisve hyalinis, 40-50 ≃ 4, basidiis brevibus variis fultis.

Hab. in foliis Mori albæ et M. nigræ in Britannia, Gallia, Italia, Germania, Austria inf. — Ob perithecia sæpe indistincta ad *Septoglœum* vel *Fusarium* vergit. Folia, necando, excidere cogit.

3. **Phleospora moricola** (Pass.) Sacc. *Septoria moricola* Pass. in Myc. univ. n. 394. — A *Septoria Mori* Lév.: maculis indeterminatis, non rufo-limitatis; peritheciis præcipue hypophyllis, minoribus, sparsis vel laxe gregariis, non centralibus, nec circinatis et sporulis exquisite multiseptatis, differre videtur. — An ejusdem forma peculiaris autumnalis? 3137

Hab. in foliis languidis Mori albæ per autumnum, Parma, Padova in Italia bor. — Folia multo minus vexat quam *Ph. Mori.*

4. **Phleospora Ulmi** (Fr.) Wallr. Comp. Fl. Crypt. Germ. n. 1545, *Sept. Ulmi* Fr. Nov. Fl. Succ. V. p. 78 (1819), *Stilbospora Uredo* DC. (1815), *Sphæria ulmicola* Biv. Bern. (1815), — Maculis brunneis; peritheciis tenuibus, sparsis, hypophyllis; cirris albidis; sporulis cylindraceo-botuliformibus, utrinque rotundatis, initio guttulatis, dein 4-septatis, 55 ≃ 6. 3138

Hab. in foliis Ulmi campestris in tota Europa et in Amer. bor. — Spermogonium *Phyllachoræ Ulmi* (Sow.) Fuck. Ob perithecia subinde obsoleta ad *Septoglœum* nutat.

5. **Phleospora Oxyacanthæ** (K. et S.) Wallr. Comp. Fl. Crypt. Germ. n. 1546, *Septoria Oxyacanthæ* Kunze et Schm. Mykol. Hefte II. p. 108, Sacc. Mich. I. p. 176. — Maculis flaventibus vel obsoletis; peritheciis lenticularibus, plerumque hypophyllis, subinde imperfectis; cirris lutescentibus; sporulis bacillaribus, deorsum subincrassatis, 70-80 ≃ 6-8, initio granulosis, dein 6-8-septatis, hyalinis. 3139

Hab. in foliis vivis Cratægi Oxyacanthæ in Suecia, Italia, Lusitania, Britannia, Germania, Austria inf. — Ob perithecia minus distincta ad *Septoglœum* vergit.

RHABDOSPORA Mont. in Fl. Alg. Bot. p. 592, emend. Sacc. Mich. II. p. 6. (Etym. *rhabdos* virga, baculus, et *spora*). — Perithecia subcuticulari-erumpentia, globulosa vel depressa, typice papillata, solidiuscula, subinde subhysterioidea, atra vel fusca, plerumque non maculicola, nec foliicola. Sporulæ bacillares vel filiformes, pluriguttatæ vel pluriseptatæ, hyalinæ. Basidia varia vel obsoleta. — A *Septoria* differt fere ut *Phoma* a *Phyllosticta*. Species in Mono-

cotyledoneis obvias interdum sub *Septoria* retinui. Cfr. p. 560 in nota. Nonnullæ species, ubi perfectius exploratæ, forte ad *Phlyctænam* ducendæ erunt.

I. *In Dicotyledoneis lignosis.*

1. **Rhabdospora ribicola** (B. et C.) Sacc. *Septoria ribicola* B. et C. 8140
North Amer. Fungi n. 444bis. — Ramulicola; peritheciis sparsis nitidis; sporulis linearibus curvulis, 25 μ. longis.

Hab. in ramulis dealbatis Ribis rotundifolii, Wisconsin.

2. **Rhabdospora applanata** (Pr.) Sacc. *Filospora applanata* Preuss 3041
F. Hoyersw. n. 319. — Peritheciis globoso-depressis, subtectis; ostiolo minuto, punctiformi, perforato, parvo, atro; maculis elongatis, determinatis, nigris, insidentibus cum floccis pertextis; sporulis filiformibus, albis cum multis guttulis oleosis.

Hab. ad caules herbarum, Hoyerswerda.

3. **Rhabdospora Lebretoniana** Sacc. et Roum. Reliq. Libert. Ser. IV. 3142
n. 155 *(Septoria)*. — Peritheciis innato erumpentibus, prominentibus, globoso-inæqualibus, brevissime papillatis, gregariis, subinde confluentibus, subcoriaceis, atris, $^3/_4$ mill. diam.; sporulis filiformibus, sursum conspicue hamatis, 20–24 = 1,5, continuis, hyalinis; basidiis sporulà paullo brevioribus, filiformibus fasciculatis.

Hab. in ramis corticatis Genistæ in Arduennis (Libert).

4. **Rhabdospora phomatoides** Sacc. Mich. I. p. 175 *(Septoria)*. — 3143
Maculis expallentibus, indeterminatis, cladogenis; peritheciis hinc inde gregariis, subtectis, e globoso lenticularibus, 100 μ. diam., pertusis; sporulis bacillaribus rectis curvulisve, utrinque obtusis, 15–25 = 1–1½, pluriguttulatis hyalinis.

Hab. in ramulis Genistæ tinctoriæ in silva Montello Ital. bor. — β. **brachyspora** Sacc. Mich. II. p. 626: sporulis quam in typo brevioribus, nempe 10 = 1–1,5, guttulatis, hyalinis. In caule Thesii humifusi, Dessenes Galliæ (Therry).

5. **Rhabdospora umbonata** (Pr.) Sacc. *Filospora umbonata* Preuss 3144
F. Hoyersw. n. 318. — Peritheciis parvis, atris, basi applanatis, insertis sub epidermide; ostiolo dein erumpente pertuso, ipso pseudostromate ambiente effuso; basidiis brevissimis; sporulis filiformibus, albis, flexuosis.

Hab. in ramis languidis Spartii scoparii, Hoyerswerda.

6. **Rhabdospora Cordobensis** (Sp.) Sacc. *Septoria Cordobensis* Speg. 3145
F. Argent. Pug. II. n. 115. — Maculis nullis vel pallide cinerescentibus indeterminatis; peritheciis globoso-lenticularibus, atris

subepidermicis, prominulis, poro papillato pertusis, contextu dense et indistincte parenchymatico, fuligineo-olivaceo; sporulis bacillaribus, utrinque obtusis, flexuosis, crassiusculis, 25–40 ≃ 4–5, 4-magniguttulatis vel 3-pseudoseptatis, hyalinis.

Hab. in ramulis vivis Heterothalami spartioidis in sepibus prope Cordoba Argentinæ.

7. **Rhabdospora Preussii** Sacc. *Filospora peritheciæformis* Preuss F. Hoyersw. n. 321. — Stromate villoso-furfuraceo, conferto, conico-acuto, tum circumscripto, aperto; basi latissime crustaceo-effuso et infra basin linea lignum penetrante circumscripto; perithecis singulis vel plurimis irregulariter circinatis; pulpa sporularum albo-rosea; basidiis brevissimis; sporulis flexuosis filiformibus, albis. 3146

Hab. sub epidermide ramorum Cytisi Laburni, Hoyerswerda.

8. **Rhabdospora breviuscula** (B. et C.) Sacc. *Septoria breviuscula* B. et C. North Amer. Fungi n. 450bis. — Ramicola; perithecis epidermide elevata conditis; sporulis allantoideis, 25 μ. longis. 3147

Hab. in ramis Robiniæ in Carolina inferiore.

9. **Rhabdospora Magnoliæ** (Thüm.) Sacc. *Cryptosporium Magnoliæ* Thüm. F. Austr. n. 1069. — Peritheciis epidermide primo tectis, demum liberis, vix erumpentibus, nigris; sporulis leniter curvatis, acuminatis. 3148

Hab. in ramulis emortuis Magnoliæ Umbellæ in hortis, Tetschen Bohemiæ sept.

10. **Rhabdospora inæqualis** Sacc. et Roum. Reliq. Libert. Ser. IV. n. 156 *(Septoria)*. — Peritheciis dense gregariis innato-erumpentibus globoso-depressis, valde inæqualibus, vix papillatis, atris, $^1/_4$ mill. diam.; sporulis fusoideis, utrinque acutis, curvatis, continuis hyalinis, 15–18 ≃ 3; basidiis filiformibus, prælongis, variis, 20–40 ≃ 2,5, hyalinis. 314

Hab. in cortice levi Sorbi aucupariæ in Arduennis (Libert).

11. **Rhabdospora Caprifolii** Sacc. Mich. I. p. 174 *(Septoria)*. — Maculis indeterminatis, expallentibus, cladogenis; perithecis punctiformibus, initio epidermide velatis; sporulis filiformibus utrinque attenuatis, 35 ≃ $1^3/_4$, obsolete septatis, hyalinis. 315

Hab. in sarmentis nondum emortuis Loniceræ Caprifolii in silva Montello Italiæ bor.

12. **Rhabdospora ramealis** (Desm. et Rob.) Sacc. *Septoria ramealis* Desm. et Rob. Exsicc. n. 2189, *Ascochyta Ruborum* Lib. Exsicc. n. 244 (?). — Maculis caulicolis purpureis vel brunneo-rufis, dein 31

pallidescentibus albidis et aridis; peritheciis oblongis, convexis, plerumque subseriatis, $^1/_4$-$^1/_2$ mill. diam., poro minuto pertusis, innatis, dein epidermide fissa, subprominulis; sporulis linearibus, 15-25 ≃ 1, rectis, brevibus, 5-7-nucleolatis; cirro albo.

Hab. in sarmentis vivis Ruborum in Gallia et Belgio.

13. **Rhabdospora? persica** Sacc. Mich. I. p. 174 *(Septoria)*. — Maculis nullis vel expallentibus indeterminatis, cladogenis; peritheciis oblongo-lenticularibus inæqualibus, gregariis, tectis dein prominulis, minutis, atris, pertusis, hyphis filiformibus conidiophoris cinctis; conidiis in hypharum apice acrogenis ovoideis, 10 ≃ 4, 2-guttulatis, hyalinis; sporulis fusoideis, sæpe curvulis 1-(rarius 2-3-) septatis, ad septa constrictis, 13-18 ≃ 2-2,5, hyalinis. 3152

Hab. in ramulis junioribus (quos enecat?) Persicæ vulgaris, Padova Italiæ bor. — Hyphis conidiophoris exstantibus, an status *Capnodii Persicæ* Turp.?

14. **Rhabdospora hamata** Schulz. et Sacc. Micr. Slav. n. 60, Schulz. Ill. Fung. Slav. n. 86. — Peritheciis, cortice secedente, superficialibus, globoso-conicis, inæqualibus, basi plana adnatis, $^1/_6$ mill. d.; sporulis filiformibus, apice hamatis, 25 μ. longis, hyalinis; basidiis obsoletis. 3153

Hab. in ramis Cydoniæ prope Vinkovce Slavoniæ. — «An *Phlyctæna?*».

15. **Rhabdospora ampelina** (Thüm.) Sacc. *Cryptosporium ampelinum* Thüm. Symb. Myc. Austr. I. n. 4. — Peritheciis minutis, primo tectis, demum epidermidem perforantibus, sæpe seriatis, subplanis, depresso-globosis, nigris; sporulis cylindraceis, rectis, continuis, utrinque obtusiusculis, 10-14 ≃ 1-1,5, hyalinis. 3154

Hab. in sarmentis subputridis Vitis viniferæ, Klosterneuburg Austriæ.

16. **Rhabdospora Müggenburgii** (Pir.) Sacc. *Septoria Müggenburgii* Pirotta Funghi parassiti dei Vitigni p. 66. — Peritheciis minutis, sphæricis, nigris, cortice immersis, demum erumpentibus; sporulis bacillari-fusiformibus, curvulis, dilute fuscis, 9-nucleatis, 46-63 ≃ 3. 3155

Hab. ad ramulos Vitis viniferæ in Slavonia.

17. **Rhabdospora tomipara** (Pass.) Sacc. *Septoria tomipara* Passer. F. Parm. Sept. n. 23. — Peritheciis minutis, atris, per epidermidem dealbatam erumpentibus; sporulis basidiis filiformibus longis fultis, bacillaribus, rectis vel vix flexuosis, tenuissimis, crassis, septulatis, in articulos mox secedentibus, hyalinis, 30 ≃ 2,5 (continuis?). 3156

Hab. in sarmentis emortuis Vitis vinifer æ, Vigheffio Italiæ borealis.

18. **Rhabdospora Falx** (B. et C.) Sacc. *Septoria Falx* B. et C. No- 3157
tices of North Amer. Fungi p. 76, n. 446bis, Sacc. Mich. II. p. 436, Fungi ital. t. 1173. — Ramincola; maculis nullis vel expallentibus; peritheciis dense gregariis, numerosissimis, majusculis, sphæroideis, demum erumpentibus, brunneolis, circa ostiolum nigrescentibus; sporulis in cirrum album longissimum expulsis, filiformibus, utrinque vix attenuatis, falcatis, 18–20 ≃ 2–2,5, continuis, eguttulatis, hyalinis; basidiis longiusculis, 12–16 ≃ 2–2,5, rectis, hyalinis.

Hab. in ramis Vitis in Carolina inf. Amer. sept. (Ravenel) et in trunco ramisque vivis Citrorum in frigidariis horti botanici patavini Italiæ bor. (O. Penzig).

19. **Rhabdospora flexuosa** (Penz.) Sacc. *Septoria flexuosa* Penz. Fun- 3158
ghi Agrumic. in Sacc. Mich. II. p. 437, Fungi ital. t. 1174. — Maculis nullis; peritheciis sparsis vel laxe gregariis, immersis, globosis, atro-brunneis; sporulis filiformibus, flexuosis, utrinque obtusiusculis, continuis, eguttulatis, 25–28 ≃ 1,5–2, hyalinis; basidiis obsoletis vel nullis.

Hab. in cortice ramorum vivorum Citri Aurantii in frigidariis horti botanici patavini Italiæ bor. (O. Penzig).

20. **Rhabdospora Loniceræ** (C. et Ell.) Sacc. *Cryptosporium Loni-* 3159
ceræ C. et Ellis in Grevillea t. 99, f. 2. — Subgregaria, tecta, epidermide elongato-fissa; peritheciis distinctis, atris; sporulis cylindraceis, arcuatis, utrinque obtusis, hyalinis, 25 μ. longis.

Hab. in ramis Loniceræ, New Jersey Amer. bor.

21. **Rhabdospora decipiens** (B. et C.) Sacc. *Septoria decipiens* B. et 3160
C. North Amer. Fungi n. 445. — Ramulicola; peritheciis demum denudatis; sporulis tenuissimis, longissimis, flexuosis.

Hab. in ramulis dealbatis Loniceræ in Carol. inf. Amer. bor.

22. **Rhabdospora lentiformis** Schulz. et Sacc. Micr. Slav. n. 58, Schulz. 3161
Ill. Fung. Slav. n. 843. — Peritheciis lentiformibus, h. e. valde depressis, subcutaneis, non vel vix erumpentibus, intus pallidis, 250–300 ≃ 70; sporulis cylindricis, utrinque obtusiusculis, varie curvatis, hyalinis, 24–34 ≃ 2.

Hab. in ramis corticatis Fraxini excelsioris prope Vinkovce Slavoniæ.

23. **Rhabdospora myelostromatica** (Pr.) Sacc. *Septoria myelostro-* 3162
matica Preuss F. Hoyersw. n. 21. — Peritheciis sphæricis, corneis, atro-fuscis, myelostromati insidentibus, ostiolis perforatis; spo-

rulis naviculiformibus, uniseptatis, albis; nucleo interno; basidiis nullis.

Hab. in cortice dejecto Fraxini, Hoyerswerda.

24. **Rhabdospora interrupta** (B. et C.) Sacc. *Septoria interrupta* B. et C. North Amer. Fungi n. 446. — Ramulicola; peritheciis sparsis; sporulis linearibus, flexuosis, multinucleatis, 50 μ. longis. 3163

Hab. in ramulis Viburni Opuli in Pensylvania (Michener).

25. **Rhabdospora Oleandri** Dur. et Mont. Fl. Alg. I. p. 593, Mont. Syll. crypt. p. 278. — Punctiformis; peritheciis membranaceis minutissimis, 70-100 μ. diam., innato-prominulis atris, intus massa ceracea albida farctis; sporulis fusiformibus obscure multiseptatis 20 ≃ 2. 3164

Hab. in ramo dejecto Nerii Oleandri ad Bone in Algeria.

26. **Rhabdospora imperialis** Sacc. Mich. I. p. 174 *(Septoria)*. — Maculis cladogenis, oblongis, expallentibus; peritheciis gregariis, punctiformibus, sublenticularibus, e globoso depressis, 30 μ. d., ostiolo lato pertusis, contextu parenchymatico fuligineo; sporulis cylindraceis utrinque acutiusculis, curvatis, 16-18 ≃ 2, continuis, hyalinis. 3165

Hab. in ramulis Paulowniæ imperialis, Conegliano Italiæ borealis.

27. **Rhabdospora verruciformis** (B. et C.) Sacc. *Septoria verruciformis* B. et C. North Amer. Fungi n. 447. — Peritheciis majusculis rugosis; sporulis tenuissimis subrectis. 3166

Hab. in ramis Cephalanthi, Alabama Amer. bor. (Peters).

28. **Rhabdospora Passerinii** Sacc. *Septoria ramealis* Passer. F. Parm. Sept. n. 18, nec Desm. — Peritheciis carbonaceis epidermide, tandem rupta et decidua, tectis; sporulis cylindricis, utrinque vix attenuatis, rectis, 3-septatis, hyalinis, 30-32 ≃ 2,5. 3167

Hab. in ramis Negundinis fraxinifoliæ, Parma Ital. bor.

29. **Rhabdospora notha** Sacc. Mich. II. p. 103. *(Septoria)*. — Peritheciis innato-erumpentibus, corticolis, hinc inde in acervulos aggregatis, depresso-globosis, $^1/_5$-$^1/_4$ mill. diam.; sporulis filiformi-arcuatis, 30 ≃ 1, hyalinis, basidiis teretibus, 9-11 ≃ 1, rectis suffultis. 3168

Hab. in ramis corticatis Aceris Platanoidis, Saintes in Gallia (Brunaud). — Probabiliter spermogonium *Diaporthes Hystricis* (Tode) Sacc. — Var. **Coryli** Sacc.: differt a typo sporulis rectiusculis, 30-35 ≃ 0,7; basidiis longioribus. In ramis Coryli in Arduennis (Libert). — « An *Phlyctæna?* ».

30. **Rhabdospora fusicoccoides** Sacc. et Roum. Reliq. Libert. Ser. IV. n. 157 *(Septoria)*. — Peritheciis subcutaneo-erumpentibus grega- 3169

riis, globulosis, vertice subinde impressis, atris, $^1/_2$ mill. diam., intus ceraceis pallidis; sporulis fusoideis, utrinque acutis, curvis, 16–18 ≃ 3, hyalinis, continuis; basidiis bacillaribus, sporulâ dimidio brevioribus, hyalinis.

Hab. in cortice levi Carpini (ut videtur) in Arduennis (Libert).

31. **Rhabdospora maculans** (B. et C.) Sacc. *Septoria maculans* B. et C. North Amer. Fungi n. 448bis. — Maculis cladogenis plus minusque definitis, pallidis, obscurius limbatis; peritheciis punctiformibus gregariis; sporulis tenuissimis flexuosis, 25 μ. longis. 3170

Hab. in ramulis tenellis Alni in Carolina inf. Amer. bor.

32. **Rhabdospora princeps** (B. et Br.) Sacc. *Septoria princeps* B. et Br. Ann. N. H. n. 940, t. 15, f. 11. — Peritheciis majusculis, depressis, papillatis, epidermide tectis; sporulis cylindricis, oblongis, 5-6-septatis, hyalinis, 50 μ. longis, in massulas varias erumpentibus. 3171

Hab. in ramis Fagi, Batheaston Britanniæ.

33. **Rhabdospora Juglandis** (Schw.) Sacc. *Septoria Juglandis* Schw. B. et C. North Amer. Fungi pag. 76, *Sph. Juglandis* Schw. (ubi?). — Peritheciis gregariis, innatis, vix erumpentibus, atris; sporulis bacillaribus, sursum breviter hamatis. 3172

Hab. in ramis Juglandis nigræ in Pensylvania (Michener). — « An *Phlyctæna?* ».

34. **Rhabdospora Montagnei** Sacc., *Sphæria peregrina* Mont. et Fries Syll. p. 235. — Obtecta, sparsa, raro confluens; peritheciis cylindrico-conicis, truncatis, atris, opacis, spiraliter plicato-striatis, epidermide adnata tectis, ostiolo tandem poro pertuso; sporulis filiformi-linearibus curvulis. 3173

Hab. in ramis Broussonetiæ papyriferæ, Lyon Galliæ (Montagne).

35. **Rhabdospora Populorum** Schulz. et Sacc. Micr. Slav. n. 59, Schulz. Ill. Fung. Slav. n. 14. — Peritheciis gregariis subsuperficialibus, globoso-conicis, punctiformibus, obtuse papillatis, 300 μ. d.; sporulis cylindricis, arcuatis, utrinque rotundatis, continuis hyalinis, 16-20 μ. longis, e strato proligero lutescente oriundis; basidiis..... 3174

Hab. in cortice duriore Populi, Eperjes Slavoniæ.

36. **Rhabdospora diaporthoides** Sacc. Mich. II. p. 278 (*Septoria*). — Peritheciis gregariis, subepidermicis, globoso-lenticularibus, $^1/_5$ mill. diam., fuligineis; sporulis anguste fusoideis, curvatis, 37–38 ≃ 2–3, pluriguttulatis, hyalinis. 3175

Hab. in ramis salicinis prope Schio Ital. bor. (A. Rossi).

37. **Rhabdospora salicella** (B. et Br.) Sacc. *Septoria salicella* B. et Br. Ann. N. H. n. 746, t. XV. f. 7. — Subepidermica; peritheciis subglobulosis epidermide pustulatim elevata tectis; sporulis fusiformibus, 3-septatis, 30 μ. longis, cirris rubescentibus, irregularibus. 3176

Hab. in ramulis salicinis in Belgio et Britannia.

38. **Rhabdospora Pini** (B. et C.) Sacc. *Cryptosporium Pini* B. et C. North Amer. Fungi n. 396. — Peritheciis papilliformibus nigris cuticula tectis denique erumpentibus; sporulis angustis, curvatis, uniseptatis utrinque attenuatis, 70 μ. longis; basidiis sporulæ tertiam partem æquantibus. 3177

Hab. in cortice levi Pini, New England Amer. bor. (Sprague).

39. **Rhabdospora pinea** Karst. Hedw. 1884, p. 58. — Peritheciis laxe gregariis, subinde cæspitosis vel sparsis, erumpenti-superficialibus, forma varia, ut plurimum rotundatis, scabriusculis, atris vel fuscescenti-atris, astomis, 0,4 mill. diam.; sporulis fusoideo-bacillaribus, curvulis vel subrectis, solito 3-septatis, chlorino-hyalinis, 22-40 ≃ 3-4. 3178

Hab. in ramis corticatis emortuis Pini silvestris, Mustiala Fenniæ.

40. **Rhabdospora pithyophila** Sacc. Mich. I. p. 175 (*Septoria*). — Maculis albicantibus v. obsoletis; peritheciis sparsis minutissimis erumpenti-superficialibus e globoso angulosis, atronitidis, denique collapsis; sporulis bacillari-fusoideis, falcatis, 30 ≃ 3-4, pluriguttulatis, hyalinis, basidiis filiformibus, 30 ≃ 1, fultis. 3179

Hab. in cortice ramorum Abietis, Conegliano in Italia bor. (Spegazzini).

41. **Rhabdospora Ephedræ** (Auersw.) Sacc., *Sphæropsis Ephedræ* Auersw. in Willk. Sertum Floræ Hisp. p. 171. — Peritheciis minutis, rugulosis, astomis, epidermidem tenuiter perforantibus; sporulis continuis, filiformi-cylindricis, leviter curvatis, utrinque rotundatis. 3180

Hab. ad ramos emortuos Ephedræ vulgaris, Valencia Hispaniæ.

42. **Rhabdospora ephedrina** Sacc. Misc. Myc. F. Gall. n. 2250 (*Sept. Ephedræ*). — Peritheciis gregariis, globoso-depressis, pertusis, 80-100 μ. diam., epidermide initio velatis; sporulis bacillaribus, curvis, utrinque obtusiusculis, 26-30 ≃ 1,5, 6-10-guttulatis, hyalinis. 3181

Hab. in ramulis Ephedræ, Rouen Galliæ (Letendre). — «An diversa a *Sept. Ephedræ?*».

43. **Rhabdospora Kirghisorum** Sacc. *Septoria Ephedræ* Thüm. Fungi 3182

aliq. in terra Kirghis. n. IX. — Peritheciis parvulis emergentibus, demum pertusis, atris, inæqualiter globosis, dense gregariis absque macula; sporulis cylindraceis, subarcuatis, utrinque acutiusculis, continuis, hyalinis, 20-24 ≃ 3.

Hab. in ramulis Ephedræ distachiæ prope Orenburg et Minussinsk Rossiæ.

44. **Rhabdospora Lituus** (B. et Br.) Sacc. *Septoria Lituus* B. et Br. Ann. Nat. Hist. n. 744, t. XV. f. 5. — Subepidermica, pustulata; peritheciis depressis; sporulis filiformibus, apice curvatis, 37 μ. longis, basidia paullo superantibus. 3183

Hab. in ramis levioribus in Britannia. — An *Phlyctæna?*

45. **Rhabdospora pustulata** (Pr.) Sacc. *Septoria pustulata* Preuss F. Hoyersw. n. 23. — Gregaria erumpens; peritheciis insertis, convexis atris, ostiolis perforatis; basidiis nullis; sporulis naviculiformibus, in aliis oblongis, transverse septatis albis. 3184

Hab. in cortice ramulorum dejecto, Hoyerswerda. — «An potius *Stagonospora?*».

46. **Rhabdospora Dianæ** (B. et C.) Sacc. *Septoria Dianæ* B. et C. North Amer. Fungi p. 445bis. — Ramulicola; peritheciis majusculis apice complanatis; sporulis arcuatis longissimis, nucleolatis utrinque acutissimis. 3185

Hab. in ramis plantæ arboreæ ignotæ, New England Amer. bor. (Murray).

47. **Rhabdospora fibriseda** (Berk.) Sacc. *Hendersonia fibriseda* Berk. Hook. Journ. 1853, p. 42, t. III. f. 10. — Peritheciis subglobosis, minutis fibrisequis in maculis albis sparsis, nigro-azureis; sporulis elongatis, flexuosis, utrinque obtusis, 37 ≃ 5, obscure nucleolatis; basidiis brevibus, obtusis. 3186

Hab. in ligno betulino, King's Cliffe in Anglia.

II. *In Dicotyledoneis herbaceis.*

48. **Rhabdospora Trifolii** (Ellis) Sacc. *Septoria Trifolii* Ellis Bull. Torrey botan. Club 1822, p. 74. — Peritheciis subcuticularibus, mox epidermide decedente, subdenudatis, gregariis, maculas elongatas minutas formantibus vel regulariter sparsis; sporulis fusiformibus curvatis, granulosis, 20-38 ≃ 5. 3187

Hab. in caulibus emortuis Trifolii pratensis in Amer. bor.

49. **Rhabdospora allantoidea** (B. et C.) Sacc. *Septoria allantoidea* B. et C. North Amer. Fungi n. 442. — Caulicola, in macula elongata pallida insidens; sporulis leviter allantoideis, 15-12 μ. longis. 3188

Hab. in caulibus Medicaginis sativæ in Pensylvania (Michener).

50. **Rhabdospora hortensis** Sacc. Mich. II. p. 103 (*Septoria*). — Peri- 3189
theciis gregariis, epidermide velatis, globoso-depressis, pertusis, $^1/_5$ mill. diam.; sporulis bacillaribus, curvulis, utrinque obtusis, 30–40 ≃ 3, nubilosis vel 2–3-pseudo-septatis, hyalinis.

Hab. in caulibus cirrisque Pisi sativi prope Saintes Galliæ.

51. **Rhabdospora cæspitulosa** Sacc. Mich. I. p. 529 (*Septoria*). — 3190
Peritheciis in cæspitulos elevatos, epidermide cinctos, $^1/_2$ mill. d., nigros aggregatis, minutis, globulosis, contextu denso fusco-olivaceo; sporulis filiformibus, flexuosis, 24–28 ≃ 1, hyalinis, eguttulatis, basidiis bacillaribus subæquilongis, subsimplicibus suffultis.

Hab. in caule Pelargonii zonalis in calidariis Saintes Galliæ (Brunaud). — Habitus *Botryosph. Berengerianæ* De Not.

52. **Rhabdospora nicæænsis** (Thüm.) Sacc. *Septoria nicæænsis* Thüm. 3191
Contr. F. Litor. n. 344. — Maculis obsoletis; peritheciis densissime gregariis vel interdum subsparsis, mediis, epidermide primo velatis demum erumpentibus, punctiformibus, nigris; sporulis bacillaribus, utrinque truncatis, rectis vel leniter arcuatis, continuis, enucleatis, hyalinis, 10–12 ≃ 2,5–3.

Hab. in caulibus subaridis Euphorbiæ nicæænsis, Pola in Littorali Istriæ.

53. **Rhabdospora Thümeniana** (Pass.) Sacc. *Septoria Thümeniana* 3192
Pass. Fungh. Parm. Sept. n. 108, *Leptostroma herbarum* f. *Euphorbiæ exiguæ* Thüm. Fung. austr. n. 552. — Peritheciis sparsis punctiformibus, epidermide tectis, membranaceis fuscis; sporulis filiformibus clavulatis, integris minute nucleolatis, 36–38 ≃ 1,5–2.

Hab. in ramis, caulibus foliisque languidis et mox siccis Euphorbiæ exiguæ, Vigheffio prope Parmam Italiæ bor.

54. **Rhabdospora trichophila** Sacc. Mich. II. p. 528. — Peritheciis 3193
gregariis, erumpenti-superficialibus, globoso-conicis, 130 μ. diam., atro-nitidulis, pertusis; sporulis bacillaribus, flexuosis, 35–50 ≃ $1^1/_2$, minute guttulatis, hyalinis.

Hab. in caule tomentoso Althææ officinalis prope Rouen Galliæ (Letendre).

55. **Rhabdospora Tunicæ** Sacc. Mich. I. p. 193 (*Septoria*). — Ma- 3194
culis nullis; peritheciis gregariis, lenticulari-prominulis, punctiformibus, 60–70 μ. diam., pertusis; sporulis bacillaribus, 15–18 ≃ $1^1/_2$–$1^3/_4$, curvulis, tenuiter 1–3-septatis, hyalinis.

Hab. in caulibus languidis Tunicæ Saxifragæ, Padova in Italia boreali.

56. **Rhabdospora nigrella** Sacc. Mich. I. p. 194 (*Septoria*). — Ma- 3195
culis obsoletis; peritheciis hinc inde dense aggregatis areolasque atras elongatas efficientibus, punctiformibus, lenticularibus, 60–80 μ. d., pertusis; sporulis bacillaribus, curvulis, 12–15 ≃ 1¼, utrinque obtusiusculis, continuis, eguttulatis, hyalinis.

Hab. in caulibus Lychnidis dioicæ, Padova Ital. bor. — β. **Antirrhini** Sacc. Mich. II. p. 103: sporulis 18–20 ≃ 1½, subcontinuis, utrinque obtusiusculis; peritheciis hemisphæricis, pertusis, 100–120 μ. diam. In caule Antirrhini majoris prope Rouen Galliæ (Letendre).

57. **Rhabdospora longissima** Sacc. Mich. II. p. 280 (*Septoria*). — Peri- 3196
theciis (?) subsparsis, innato-erumpentibus, globoso-depressis, atris, astomis; sporulis fasciculatis filiformibus, tortuosis, 90–100 ≃ 1, hyalinis, continuis, basidiis furcatis, 15–16 ≃ 1½, suffultis.

Hab. in caule Arabidis in M. Grappa Ital. bor. (A. Rossi).

58. **Rhabdospora helleborina** Sacc. Mich. I. p. 529 (*Septoria Helle-* 3197
bori). — Peritheciis spuriis, subtectis, globulosis, ⅛ mill. diam., fulvescentibus; sporulis filiformi-falcatis, 30 ≃ 1¾, utrinque obtusiusculis, 3–5-nucleolatis, hyalinis.

Hab. in caule Hellebori fœtidi, Rouen in Gallia (Letendre).

59. **Rhabdospora Vitalbæ** Sacc. Mich. I. p. 193 (*Septoria*). — Ma- 3198
culis oblongis, obsolete dealbatis, indeterminatis; peritheciis gregariis, punctiformibus, 70–80 μ. d., lenticularibus, pertusis; sporulis bacillari-fusoideis, 12–15 ≃ 3, rectis curvulisve, 2-nucleatis simulateque 1-septatis, non vel vix constrictis hyalinis.

Hab. in caulibus adhuc vivis Clematidis Vitalbæ, Selva Italiæ borealis.

60. **Rhabdospora pleosporoides** Sacc. Mich. I. p. 128 (*Septoria*). — 3199
Maculis nullis; peritheciis sparsis cladogenis, epidermide velatis, globoso-depressis, ½ mill. diam., ostiolo papillato brevi; perithecii contextu celluloso fuligineo; sporulis filiformibus, rectis curvulisve, 38–50 ≃ 1–1½, continuis, obsolete guttulatis, hyalinis.

Hab. in caulibus herbarum majorum prope Berolinum et in caule Gei urbani in Thiergarten Berolini (P. Magnus); in caule Rumicum, Romæ (Bagnis); in caule Chærophylli temulenti Solidaginis Virgaureæ in Gallia (Letendre); in caulibus emortuis Ranunculi aconitifolii in Helvetia (Morthier). — β. **Bosciana** Sacc.: sporulis brevioribus et crassioribus, 20 ≃ 2–2½. In

caule herbarum prope Paris (Bosc). — γ. **rubescens** Karst. Symb. Myc. XV. p. 151: peritheciis maculæ rubescenti insidentibus; sporulis obsolete guttulatis, 35-45 ≃ 1,5-2. In caule emortuo Angelicæ silvestris prope Vasa Fenniæ. — Perithecia habitu et magnitudine *Pleosporæ herbarum*.

61. **Rhabdospora nebulosa** (Desm.) Sacc. *Septoria nebulosa* Desm. 3200
10 Not. 1843, p. 7. — Erumpens; maculis griseis, effusis vel elongatis; peritheciis minutissimis, 66 μ. diam., nigris, numerosissimis, dense sparsis v. in series longissimas parallelas aggregatis; ostiolo simplici pertuso; cirris tenellis albis; sporulis linearibus, rectis v. curvatis, 30-40 μ. longis, 10-15 nucleatis.

Hab. in caulibus siccis Apii petroselini in Gallia. — Var. **minor** Desm. 21 Not. 1853 p. 6: maculis elongatis, griseis. In foliis et caulibus siccis Barkhausiæ torosifoliæ in Gallia.

62. **Rhabdospora Scandicis** (Desm. et Rob.) Sacc. *Septoria Scandicis* 3201
Desm. et Rob. 21 Not. 1853, pag. 7. — Maculis oblongis, pallide brunneis vel viridescentibus; peritheciis numerosis, sparsis, subglobosis, innato-prominulis, 125-150 μ. diam., epidermide tectis, dein subnudis, fuscis, depressis; cirris albis; sporulis elongatis linearibus, curvulis aut flexuosis, 30-40 ≃ 1,6, indistincte nucleatis.

Hab. in ramis languidis fructibusque Scandicis Pectinis Veneris in Gallia.

63. **Rhabdospora Nebula** Sacc. Mich. I. p. 193 (*Septoria*). — Maculis 3202
nullis vel obsolete cinerescentibus, indeterminatis; peritheciis late densiuscule gregariis, punctiformibus lenticularibus, 50-60 μ. d., pertusis, atris; sporulis bacillaribus, curvulis, 15 ≃ 1, obsolete 1-septatis, hyalinis.

Hab. in caulibus Heraclei Sphondylii, Vittorio Ital. bor. — β. **Anethi** Sacc. Mich. II. p. 103: sporulis linearibus, 12-15 ≃ 1, continuis. In caulibus Fœniculi, Toulouse Galliæ. — A *Septoria nebulosa* Desm. X. Notic. p. 7 probe diversa.

64. **Rhabdospora eupyrena** Sacc. et Thüm. Mich. II. p. 347 (*Septoria*). 3203
— Peritheciis gregariis epidermide velatis, dein liberis, globoso-depressis, papillatis, $^1/_3$-$^1/_2$ mill. diam., contextu parenchymatico solidiusculis; sporulis bacillaribus vel acicularibus, rectiusculis, 90 $1^1/_2$-2, hinc inde guttulatis simulateque 8-10-septatis, hyalinis.

Hab. in caulibus putrescentibus Heraclei Sphondylii prope Lyon Galliæ (Therry). — A *Septoria pleosporoide* Sacc. differt imprimis sporulis multo longioribus.

65. **Rhabdospora polita** (Fr.) Sacc. *Sphæria polita* Fr. S. M. II. p. 3204

426, p. p.? *Sphæropsis polita* (Fr.) Fuck. Symb. p. 397. — Peritheciis cæspitose erumpentibus, nitidulis, subastomis; sporulis linearibus obscure multiseptatis, 70 ≃ 2-3, hyalinis.

Hab. in caulibus putrescentibus Chærophylli aurei in Jura Helvetiæ (Morthier), et Heraclei Sphondylii in Saxonia (Schubert). — Cfr. Syll. I. p. 464.

66. **Rhabdospora Brunaudiana** Sacc. Mich. I. p. 528 (*Septoria*). — Peritheciis laxe gregariis, subcutaneis, lenticularibus, 115 μ. diam., pertusis, denique detectis; sporulis filiformibus, curvis, 25-30 ≃ 1, hyalinis, eguttulatis, basidiis clavatis crassiusculis sporulâ dimidio brevioribus suffultis. 3205

Hab. in caule Fœniculi officinalis Saintes Galliæ (Brunaud). — A *Sept. nebula* et *nebulosa* peritheciis majoribus, basidiorum præsentia etc. differt.

67. **Rhabdospora caulogena** Sacc. Mich. I. p. 529 (*Septoria*). — Peritheciis sparsis, tectis dein erumpentibus, lenticularibus, 100 μ. diam., pertusis; sporulis prælongis, filiformibus, 50-60 ≃ 1-1½, 6-8-guttulatis, hyalinis. 3206

Hab. in caule Scandicis Cerefolii, Saintes Galliæ (Brunaud). — A *Sept. caulicola* Sacc. sporulis longioribus et angustioribus differt.

68. **Rhabdospora Sceptri** Karst. Symb. Myc. Fenn. XII. 1883, p. 112 et XIV. p. 151. — Maculis nullis; peritheciis sparsis, mediocribus vel minutis, e sphæroideo lentiformibus, demum solito (siccis) cupulato-depressis, epidermide tandem leniter rupta velatis, astomis, atris; sporulis simplicibus, bacillari-fusoideis, falcatis, sursum clavulatis, hyalinis, 21-35 ≃ 2, sterigmatibus brevissimis suffultis. 3207

Hab. in caulibus languidis Pedicularis Sceptri-carolini in Suboviguba Lapponiæ rossicæ; et in caule Dianthi superbi, Kola Lapp. rossicæ.

69. **Rhabdospora verbenicola** Sacc. Mich. I. p. 528 (*Septoria*). — Peritheciis laxe gregariis, sub-epidermico-erumpentibus, globoso-lenticularibus, 70-80 μ. diam., late pertusis; sporulis acicularibus, leniter curvis, 30 ≃ 1, hyalinis. 3208

Hab. in caule ramisque Verbenæ officinalis, Rouen in Gallia (Letendre) et in Italia bor.

70. **Rhabdospora hedeomina** (Peck) Sacc. *Septoria hedeomina* Peck 33 Rep. St. Mus. p. 25. — Maculis nullis; peritheciis sparsis, minutis, 120-140 μ. diam., applanatis, inconspicuis, nigris; sporulis filiformibus, valde curvatis, hyalinis, 30-40 μ. longis. 3209

Hab. in caulibus calycibusque emortuis Hedeomatis pulegioidis, Sandlake Amer. bor.

71. **Rhabdospora Origani** (Brun.) Sacc. *Septoria Origani* Brunaud Revue Mycolog. IV. p. 225. — Maculis nullis; perithecíis sparsis, epidermide circum circa nigra tectis, dein prominulis, lenticularibus, nigris, lucidis, pertusis; sporulis cylindrico-bacillaribus, rectis vel curvatis, utrinque leniter acutis, pauci-guttulatis vel indistincte septatis, 35–42 ≃ 3. 3210

Hab. in caulibus emortuis Origani vulgaris, Saintes Galliæ.

72. **Rhabdospora Chloræ** Sacc. et Speg. Mich. I. p. 192 (*Septoria*). — Maculis obsoletis v. vage albescentibus; peritheciis gregariis, punctiformibus, globulosis, prominulis, subastomis, contextu densiusculo parenchymatico nigricante; sporulis filiformibus flexuosis, 35–40 ≃ 1, 4–6-septulatis, hyalinis. 3211

Hab. in foliis caulibusque Chloræ perfoliatæ, Conegliano Ital. bor. (Spegazzini). — Ad *Septoriam* quoque multum accedit.

73. **Rhabdospora cynanchica** Sacc., Bomm. et Rouss. in litt. et herb. — Peritheciis laxe gregariis, lenticularibus, pertusis, atris, 1/7 mill. diam., epidermide velatis; sporulis cylindraceis utrinque obtusiusculis, 4-6-guttulatis, curvulis, 25–30 ≃ 3, hyalinis; basidiis brevibus paliformibus. 3212

Hab. in caule Cynanchi Vincetoxici pr. Bruxelles Belgii.

74. **Rhabdospora peregrina** Dur. et Mont. Fl. Alg. I. p. 592, Mont. Syll. crypt. p. 278, non *Sphæria peregrina* Mont. (= *Rhabdospora Montagnei*). — Epiphylla; peritheciis sparsis epidermide tandem fissa cingenteque tectis atris, 350 μ. diam., intus fuliginosis, puncto centrali albo; sporulis cylindricis brevissime pedicellatis rectis, utroque fine truncatis, 20 ≃ 7,5. 3213

Hab. in caule, ramis foliisque Rubiæ peregrinæ ad Philippeville in Algeria.

75. **Rhabdospora Wahlenbergii** (Speg.) Sacc. *Septoria Wahlenbergii* Speg. F. Arg. Pug. IV. n. 296. — Caulibus et foliis infectis arescenti-cinerescentibus; peritheciis hypodermicis, prominulis, lenticularibus, 90–100, densiuscule sparsis, membranaceis, contextu sinuoso-parenchymatico, fusco-fuligineo, circa ostiolum densissimo, subcarbonaceo; sporulis cylindraceo-bacillaribus, utrinque obtusiusculis, 30–40 ≃ 1,5, continuis, hyalinis. 3214

Hab. ad caules foliaque Wahlenbergiæ linearioidis in aridis prope la Chacarita Argentinæ.

76. **Rhabdospora Solidaginis** (C. et E.) Sacc. *Cryptosporium Soli-* 3215

daginis C. et Ellis in Grevillea t. 99, f. 1. — Gregaria, exigua, brunnea, tecta; peritheciis subapplanatis, pertusis; sporulis numerosissimis, arcte fusiformibus, utrinque acutis, leniter curvulis, hyalinis, 30–35 *μ*. longis.

Hab. in caule Solidaginis, New Jersey Amer. bor.

77. **Rhabdospora Nubecula** Sacc. Mich. II. p. 103 (*Septoria*). — Peritheciis (spuriis) lenticularibus, punctiformibus, velatis, gregariis; sporulis fusoideo-falcatis, 20 ≃ 3½, continuis, hyalinis, basidiis teretibus, 15 ≃ 3, obtusiusculis suffultis. 3216

Hab. in caule Solidaginis Virgaureæ, sociâ *Sphærellâ nebulosâ* in Gallia australi.

78. **Rhabdospora helianthicola** (C. et H.) Sacc. *Septoria helianthicola* Cooke et Harkn. Grev. 1880, p. 6. — Peritheciis semiimmersis, atris, maculas nigras formantibus; sporulis rectis vel flexuosis, linearibus, achrois, 30–35 ≃ 1. 3217

Hab. in caulibus Helianthi in California Amer. bor.

79. **Rhabdospora Cirsii** Karst. Symb. Myc. XV. p. 151. — Maculis nullis; peritheciis laxe gregariis subsuperficialibus, rotundatis vel sphæroideo-depressis, sæpe cupulatis, papilla minuta subinde elongata perithecium dimidium subæquante; basi hyphis parcis, fuscis obsessis, atris, 0,3–0,5 mill. diam.; sporulis filiformibus, utrinque attenuatis, rectis, raro curvulis, pluriguttulatis, 45–52 ≃ 1–1,5. 3218

Hab. in caulibus emortuis Cirsii nec non Solani tuberosi, Trifolii medii et Gnaphalii silvatici, Vasa et Mustiala Fenniæ.

80. **Rhabdospora caulicola** Sacc. Mich. I. p. 192 (*Septoria*). — Maculis albicantibus vel obsoletis; peritheciis sparsis, minutis e globoso lentiformibus, solidiusculis epidermide tandem leniter rupta velatis, atris, latiuscule pertusis; sporulis bacillari-fusoideis, sursum clavulatis, falcatis, 40 ≃ 2½, hyalinis, sterigmatibus brevibus, crassiusculis fultis. 3219

Hab. in caulibus languidis Scabiosæ graminifoliæ prope Arco (Trentino).

81. **Rhabdospora Centranthi** (Brun.) Sacc. *Septoria Centranthi* Brun. in Roum. Rev. Mycolog. 1881, Janv. p. 14. — Maculis nullis; peritheciis minutissimis, epidermide tectis, sparsis vel aggregatis, lenticularibus, nigris; sporulis bacillaribus, leniter curvatis, utrinque obtusis, non septatis, hyalinis, 18–20 ≃ 2–3. 3220

Hab. in caulibus exsiccatis Centranthi rubri, Saintes in Gallia. — « An diversa a *Sept. Calcitrapæ* Thüm.? ».

82. **Rhabdospora Calcitrapæ** (Thüm.) Sacc. *Sept. Calcitrapæ* Thüm. Contrib. Myc. Lusit. I. p. 24 (1878). — Peritheciis gregariis, caulicolis, minimis nigris, punctiformibus, globulosis, pseudomaculas irregulares nebulosas, indeterminatas, parvas, plus minusve lineares formantibus; sporulis cylindraceo-fusoideis, utrinque subrotundatis, arcuatis, simplicibus, v. obscure biseptatis, hyalinis, 14–18 ≃ 2. 3221

Hab. in caulibus emortuis Centranthi Calcitrapæ, Coimbra Lusitaniæ.

83. **Rhabdospora continua** (B. et C.) Sacc. *Septoria continua* B. et C. Not. of North Amer. Fungi p. 11, n. 444. — Caulicola; peritheciis æqualiter sparsis epidermide abditis, prominulis; sporulis filiformibus, rectiusculis; basidiis sporulâ dimidio brevioribus. 3222

Hab. in scapis emortuis Plantaginis majoris in Pensylvania (Michener).

84. **Rhabdospora petiolina** Penz. et Sacc. Fung. Mortol. n. 29, tab. IV. fig. 14 (*Septoria*). — Peritheciis laxe congregatis, majusculis, subsuperficialibus, sphæroideis, depressis, ostiolo maximo instructis, atris, mycelio atro-brunneo, toruloideo insidentibus, 200–220 μ. d., contextu parenchymatico; sporulis cylindraceis, haud attenuatis, utrinque rotundatis, æqualibus, continuis, in arcum flexis, 20–24 ≃ 1,5–2; basidiis obsoletis. 3223

Hab. in petiolis Rhei (?), Mortola Ital. bor. (O. Penzig).

85. **Rhabdospora caudata** (Karst.) Sacc. *Sept. caudata* Karst. Hedw. 1884, p. 38. — Maculis nullis; peritheciis gregariis, superficialibus, hemisphæricis, siccitate vulgo depressis, immo depresse cupulatis, corrugatis, astomis vel ostiolo obsolete papillato, tenuissimis, contextu celluloso fuligineo-atris, 0,2 mill. diam.; sporulis fusoideo-falcatis, guttulatis, 15–25 ≃ 2, sursum in setulam circiter 15 μ. longam productis, hyalinis. 3224

Hab. ad caules siccos in Beeren Eiland (Th. Fries).

86. **Rhabdospora herbarum** (Pr.) Sacc. *Septoria herbarum* Preuss F. Hoyersw. n. 22. — Peritheciis gregariis, immersis, convexis, minutis, atris; ostiolis perforatis; sporulis elongatis tenuiseptatis, albis. 3225

Hab. ad caules herbarum frequens, Hoyerswerda.

PHLYCTÆNA Mont. et Desm. Ann. Sc. Nat. 1847, p. 16. (Etym. *phlyctæna* bulla). — Perithecia subcutanea, interdum erumpentia, globoso-oblonga, subhysterioideo-dehiscentia, fere incompleta. Sporulæ fusoideo-elongatæ vel filiformes, basidiis variis suffultæ, continuæ, hyalinæ. — Species nonnullæ ad *Rhabdosporam* nunc du-

ctæ, ubi perithecia plenius innotescant, rectius forte huc transferendæ forent.

1. **Phlyctæna vagabunda** Desm. Ann. Sc. Nat. 1847, p. 16, *Ascochyta caulium* Lib. Exs. n. 248, *Phoma Tami* Lamy in Moug. Stirp. n. 1086. — Maculis nullis vel minutissimis, brunneis fibrillosis; pseudo-peritheciis numerosis, sparsis; sporulis hyalinis, curvatis, elongatis, linearibus, obtusiusculis, 7–9-guttulatis, 18–25 μ. longis. 3226

   Hab. in caulibus herbaceis emortuis e. g. Phytolaccæ, Tami ecc. in Gallia, Belgio, Britannia et America boreali.

2. **Phlyctæna septorioides** Sacc. *Septoria phlyctænoides* B. et C. North Amer. Fungi n. 441. — Caulicola, in macula alba elongata insidens; peritheciis hysteriiformibus; sporulis filiformibus, sursum curvatis, hyalinis, circ. 25 μ. long. 3227

   Hab. in caulibus Phytolaccæ Pensylvanicæ, New Eugland Amer. bor. (Michener).

3. **Phlyctæna orthospora** B. et C. North Amer. Fungi n. 472. — Pustulis oblongis fusco-marginatis, epidermide tectis; sporulis oblongis, 6,2 μ. longis. 3228

   Hab. in Phytolacca in Pensylvania (Michener). — «An potius *Phomæ* species?».

4. **Phlyctæna complanata** (B. et C.) Sacc. *Septoria complanata* B. et C. North Amer. Fungi n. 443. — Caulicola; peritheciis grandiusculis, subplanis, hysteriiformibus; sporulis tenuissimis, subrectis, longissimis. 3229

   Hab. in caulibus Polygoni Virginici in Pensylvania (Michener).

5. **Phlyctæna Buffoniæ** Mont. Cent. VI. n. 43, in Ann. 3, XI. p. 52, et Syll. n. 1023. — Maculis nullis; pseudo-peritheciis dimidiatis minutis, orbicularibus convexis, poro amplo pertusis, fuscis tandem circumscissis; nucleo gelatinoso; sporulis fusiformibus, hyalinis guttulatis, 20 ≃ 4. 3230

   Hab. in foliolis calycinis Buffoniæ annuæ in agro ligericino, circa Mende Galliæ (Boivin).

6. **Phlyctæna phomatella** Sacc. Mich. I. p. 528 (*Septoria*). — Peritheciis dense gregariis, tectis, vix erumpentibus, inæqualiter globulosis, ¼ mill. diam. subincompletis; sporulis filiformi-uncinatis, 20 ≃ 1, hyalinis, basidiis brevioribus acicularibus suffultis. 3231

   Hab. in ramis corticatis Ulmi campestris prope Rouen in Gallia (Letendre). — β. **Symphoricarpi racemosæ** Sacc. Mich. Fungi Gall. n. 872: sporulis 20-22 ≃ 1, basidiis 8–10 ≃ 1. In ramis

ejusdem Saintes (Brunaud). — Spermogonium videtur *Diaporthes Ryckholtii*.

7. **Phlyctæna Gossypii** Sacc. Mich. II. p. 144 (*Septoria*). — Peritheciis globosis, depressis, 1/3 mill. diam., subtectis, contextu parenchymatico pallide fusco; nucleo griseo; sporulis filiformibus, sursum uncinatis, 25–30 ≃ 1–1 1/4, hyalinis, basidiis bacillaribus brevioribus suffultis. 3232

Hab. in caulibus Gossypii in Carolina (Ravenel). — *Septoriæ phomatellæ* Sacc. proxima.

8. **Phlyctæna Lappæ** (Karst.) Sacc. *Septoria Lappæ* Karst. Hedw. 1884, p. 58. — Maculis nullis; peritheciis sparsis vel laxe gregariis, subcutaneis, oblongatis, applanatis, poro pertusis, 0,2 mill. d.; sporulis fusoideo-bacillaribus, inferne falcato-curvatis, rarius flexuosis vel subrectis, 18–24 ≃ 1. 3233

Hab. in caulibus emortuis Lapparum in Fennia australi.

9. **Phlyctæna arcuata** Berk. North Amer. Fungi n. 471. — Pustulis minutis, convexiusculis epidermide tectis; sporulis filiformibus, apice hamatis, 25 μ. longis. 3234

Hab. in caule emortuo Solidaginis, New England Americæ borealis (Russell).

10. **Phlyctæna simulans** (B. et C.) Sacc. *Septoria simulans* B. et C. North Amer. Fungi n. 442bis. — Caulicola in macula elongata pallida insidens; peritheciis hysteriiformibus; sporulis linearibus curvis, 25 μ. longis. 3235

Hab. in caulibus Nabali, New England Amer. bor.

11. **Phlyctæna Johnstonii** B. et Br. Ann. N. H. n. 639*. — Maculis latiusculis; pseudo-peritheciis brunneis; sporophoris flexuosis, longis; sporulis elongatis, curvatis, medio nodulosis, hinc inæqualibus. 3236

Hab. in caule emortuo Senecionis Jacobææ, Berwick Britanniæ. — Sporulæ multoties longiores quam in *Ph. vagabunda*.

12. **Phlyctæna Pseudophoma** Sacc. Mich. I. p. 528, F. ital. t. 1176 (*Septoria*). — Peritheciis laxe gregariis, epidermide velatis, demum erumpentibus, oblongo-ellipticis, depressis, aterrimis, 360–400 ≃ 280–300 μ. d.; sporulis filiformibus, tenuibus, apice curvatis, continuis, hyalinis, 24–28 ≃ 1–1,5. 3237

Hab. in ramis corticatis Populi albæ in Gallia (Letendre), et in cortice ramisque decorticatis Citrorum, in frigidariis r. horti botanici patavini (O. Penzig). — Forte spermogonium *Diaporthes* cujusdam.

13. **Phlyctæna? hysterioides** (Pr.) Sacc. *Filospora hysterioides* Preuss 3238

F. Hoyersw. n. 320. — In ligno superne, stroma sine subiculo, atrum, late tectum, interne cavernulis, perithecium incompletum infra obducens tumescens et rima dehiscens; nucleis gelatinosis fusco-roseis erumpentibus, globosis; sporulis longissimis, filiformibus.

Hab. in ligno Salicis (in circulo doliari), Hoyerswerda. — An *Cytosporina?*

14. **Phlyctæna dissepta** Berk. Fl. New Zeal. p. 194. — Linea nigra geographica cincta; peritheciis spuriis convexis, poro pertusis (ab epidermide atrata formatis?); sporulis tenuissimis, elongatis, filiformibus, apice curvis, 42-46 = 2 μ. diam ; sporophoris filiformibus. 3239

Hab. in caulibus emortuis Rhipogoni, Titiokura Novæ Zelandiæ (Colenso).

15. **Phlyctæna Smilacis** Cooke F. Texas n. 141. — Tecta, minuta, brunnea, dense gregaria, leniter elevata; sporulis filiformibus, elongatis, ad apicem curvulis, 20-25 μ. longis. 3240

Hab. in caule Smilacis, Houston Texas Amer. bor.

GELATINOSPORIUM Peck 25 Rep. on the St. Mus. p. 48 (Etym. *gelatina* et *spora*). — Perithecia submembranacea, erumpentia, apice latiuscule dehiscentia, in sicco rugosa. Sporulæ elongatæ, filiformes, continuæ. — Perithecia madore apice hiant ostenduntque nucleum albidum gelatinosum sporularum. — « An genus satis diversum a *Micropera?* »

1. **Gelatinosporium betulinum** Peck 25 Rep. St. Mus. New York. p. 84. — Peritheciis majusculis, cæspitoso-aggregatis, prominentibus per epidermidem transverse fissam erumpentibus, vertice irregulariter hiantibus, nigris; sporulis hyalinis, subfiliformibus, apicibus acuminatis, nucleatis, 32-40 μ. longis. 3241

Hab. in ramis emortuis Betulæ lentæ, Greenbush Amer. bor. — Perithecia plerumque bina v. terna in quoque acervulo, quæ in sicco corpus irregulare unicum conflare videntur.

2. **Gelatinosporium abietinum** Peck 25 Rep. p. 84. — Peritheciis minutis, sparsis, nigris; sporulis maxime elongatis, subfiliformibus, utrinque cuspidatis, curvis, pluriguttulatis, subhyalinis, 65-75 μ. longis. 3242

Hab. in ramis emortuis Abietis canadensis (*Hemlock tree*), Greenbush Amer. bor.

SPHÆROGRAPHIUM Sacc. (Etym. quasi *Sphæronæma* ad *Graphium* nutans). — Perithecia verticalia, conica vel spiniformia, rigidula

atra. Sporulæ fili-fusoideæ, continuæ, hyalinæ, sæpius stipitellatæ guttulatæque. — Num omnes species huc vere spectent, vel (si sporulæ exogenæ) ad genus stilbeum *Harpographium*, adhucdum dijudicare nequeo.

1. **Sphærographium Loniceræ** (Fuck.) Sacc. *Sphæronæma Loniceræ* Fuck. Symb. pag. 275. — Peritheciis spuriis, sparsis, 1 mill. altis, acicularibus, acutis, atris, globulo albo minutissimo terminali; sporulis angustissimis, fusoideis, curvatis, 4-guttulatis, 32 ≃ 2, hyalinis. 3243

Hab. in ramis subvivis Loniceræ Xylostei et alpigenæ in Jura Helvetiæ, sociâ *Dothiorâ Loniceræ*.

2. **Sphærographium squarrosum** (Riess) Sacc. *Sphæronæma squarrosum* Riess Bot. Zeit. 1853, p. 133, t. III. f. 36-39. — Peritheciis atris, subcylindricis, sursum attenuatis, squarroso-squamulatis, ore fimbriato pallidiore; sporulis fusiformibus utrinque acutis, curvatis, pellucidis, 30 μ. longis. 3244

Hab. in cortice adhuc virente ramulorum Loniceræ Xylostei, Allendorf Germaniæ.

3. **Sphærographium capillare** (Ell. et Harkn.) Sacc. *Sphæronæma capillare* Ell. et Harkn. Bull. Torr. Cl. 1881, p. 51. — Peritheciis capillaribus, nigris, 2½ mill. alt., basi apiceque tenuiter incrassatis; globulo terminali pallido, conidiis cylindraceis, obtusis, curvulis v. flexuosis, plurinucleatis, 25-37 ≃ 3,5-5. 3245

Hab. in cortice ramorum Castaneæ, Bethlehem in Pensylvania Amer. bor.

4. **Sphærographium hystricinum** (Ell.) Sacc. *Sphæronæma hystricinum* Ellis in Thüm. Myc. univ. n. 787 et in Bull. Torr. 1876, p. 106. — Peritheciis dense gregariis, cylindrico-subulatis, transverse rugosis, rufo-fuscis, globulo minuto, hyalino cum levi rufi coloris tinctura; sporulis angustis arcuatis, utrinque acuminatis, 3-4-nucleatis, circiter 25 μ. longis, hyalinis, cum stipite vero sæpe adhærente, 35 μ. longis. 3246

Hab. in truncis ramulisque emortuis Azaleæ viscosæ, New Jersey Amer. bor. (J. B. Ellis).

5. **Sphærographium echinatum** (B. et C.) Sacc. *Sphæronæma echinatum* B. et C. North Am. F. n. 398. — Peritheciis globosis; collo longo processibus echiniformibus subverticillatis ornato; sporulis filiformibus curvulis. 3247

Hab. in ramis Rhododendri in montibus New Jork Americæ borealis.

6. **Sphærographium stellatum** (Ellis) Sacc. *Sphæronæma stellatum* Ellis Torr. Cl. 1876, p. 107. — Peritheciis cæspitosis, ovato-conicis acutis, apice rufescentibus; sporulis elongatis, arcuatis vel sigmoideis, 35-38 ≃ 5, plurinucleatis. 3248

Hab. in ramis emortuis Ilicis glabræ, South Jersey in America bor. — Habitus *Sph. cæspitosi*, sed sporulæ prorsus diversæ.

7. **Sphærographium seriatum** (B. et C.) Sacc. *Sphæronæma seriatum* B. et C. North Am. F. n. 405. — Peritheciis majoribus subcylindricis transversim seriatis erumpentibus, apice collapsis, contextu exteriore rufo-brunneo, interiore fusco-albido; sporulis filiformibus undulatis e strato pallide brunneo oriundis, hyalinis. basidio fuscidulo triplo longioribus. 3249

Hab. in ramis corticatis Betulæ, Massachusetts Amer. bor. (Sprague).

8. **Sphærographium Fraxini** (Peck) Sacc. *Sphæronæma Fraxini* Peck Rep. on St. Mus. New York. — Peritheciis cortice interiore nidulantibus, epidermide tectis, ostiolo erumpente longo, rigido, spiniformi; globulo albido; sporulis longis, angustis, curvis v. flexuosis, utrinque tenuatis, multinucleatis, hyalinis, 50-60 μ. longis. 3250

Hab. in ramis emortuis Fraxini americanæ, socia *Tympanide Fraxini*, cujus forte spermogonium.

9. **Sphærographium Microperæ** (Cooke) Sacc. *Sphæronæma Microperæ* Cooke in Grevillea. — Peritheciis in pustulis *Microperæ* nidulantibus, elongatis, supra attenuatis, rectis vel curvulis, atris; sporulis arcte fusiformibus, curvulis, continuis, hyalinis, 40 μ. long. 3251

Hab. in pustulis Microperæ, Darien in Georgia Amer. bor.

CORNULARIA Karst. Hedw. 1884, p. 57 (sub nom. *Corniculariella*) (Etym. a *cornu*). — Perithecia e basi bulbosa v. æquali teretia v. tereti-clavata, superficialia, cæspitosa, raro simplicia, contextu membranaceo carbonaceo. Sporulæ fusoideo-bacillares, vulgo falcatæ, septatæ, hyalinæ v. flavidæ. — Nisi sporulæ endogenæ, ad stilbeum genus *Arthrobotryum* valde accedit.

1. **Cornularia Abietis** Karst. Hedw. 1884, p. 58. — Peritheciis teretibus v. cylindraceo-clavatis, clavula subinde rotunda, superficialibus, cæspitosis v. discretis, atris, nitidulis, fragilibus, 1-1½ mill. alt.; sporulis fusoideo-bacillaribus, utrinque acutatis, falcatis, rarius rectis v. flexuosis, 7-septatis, chlorino-hyalinis v. hyalinis, 50-72 ≃ 6-8. 3252

Hab. in ramis corticatis emortuis Abietis excelsæ, Mustiala Fenniæ, sociâ *Cytosporâ Abietis.*

2. **Cornularia Boudieri** (Rich.) Sacc. *Sphæronæma Boudieri* Ch. Rich. in Rev. Myc. II. p. 92, t. VI, f. 6. — Peritheciis gregariis, vix 1 mill. long. nigris, superne in collum fimbriatum productis et radiatim globulum cingentibus, medio ventricosis, basi angustatis; globulo sporulis aciculari-fusiformibus, diametro suo plus quam 10-plo longioribus curvulis, tenuiter 3-7-septatis non constrictis, gelatinæ immersis composito. 3253

Hab. in cortice Pinorum pr. Montmorency Galliæ (Boudier).

3. **Cornularia Persicæ** (Schw.) Sacc. *Sphæronæma Persicæ* (Schw.) Ell. N. A. F. n. 946, *Sporonyla Persicæ* Schw. Car. p. 99. — Peritheciis spiniformibus e basi bulbosa erumpente, nigris, rigidulis, globulo ovato-globoso, compacto; colli perithecii contextu e cellulis filiformibus brunneis conflato; sporulis ex ejusmodi cellulis interioribus enatis anguste fusoideis, 7-8-septatis guttulatisque, 60-70 ≃ 3-3,5, olivaceis, apice pallidioribus. 3254

Hab. in ramis Cerasi et Persicæ in America boreali.

4. **Cornularia macrospora** (B. et C.) Sacc. *Sphæronæma macrosporum* B. et C. North Am. F. n. 404 bis. — Subcylindricum, basi parce dilatatum; sporulis longis filiformibus flexuosis, 7-8-septatis radiantibus coronatum. 3255

Hab. in ramis Robiniæ in Carolina inf. Amer. bor. — Perithecium (stroma?) leniter basi incrassatum, e cellulis elongatis formatum.

5. **Cornularia hispidula** (Ellis) Sacc. *Sphæronæma hispidulum* Ellis Torr. Cl. 1876, p. 106. — Peritheciis sparsis, lineari-clavatis, acutis, nigris, sub vitro minute hispido-pubescentibus, 1-1½ mill. alt.; globulo albido; sporulis lineari-lanceolatis, curvulis, 8-10-septatis, 60-65 ≃ 5, pallide flavis, articulis extimis hyalinis. 3256

Hab. in ramis emortuis Nyssæ multifloræ in South Jersey Americæ borealis.

6. **Cornularia sphæroidea** (Ell.) Sacc. *Sphæronæma sphæroideum* Ell. Bull. Torr. Bot. Cl. 1881, p. 65. — Initio epidermide tectum, setulis brunneis, asperis vestitum, dein erumpens depilatum, sed rugulosum, brassicæ seminis magnitudine, ostiolo subconico, mox collabascente; sporulis clavato-fusoideis, leniter curvis, tenuiter 3-septatis, apice obtusis, deorsum tenuatis, stipitellatis, 35-38 μ. long. (cum stipite). 3257

Hab. in caulibus herbaceis, Pleasant Valley, Utah Amer. bor.

7. **Cornularia microscopica** (Fuck.) Sacc. *Sphæria microscopica* 3258
Fuck. Symb. p. 275, an Fries. — Peritheciis sparsis subsuperficialibus, minutissimis, rostro perithecio sublongiore, aciculari, 164 ≃ 66 (fungo integro); sporulis anguste fusoideis, rectis curvulisve obscure 8-10-septatis, 24 ≃ 2-3, hyalinis.

Hab. in ramis putridis Populi italicæ, socia *Dothiorâ mutilâ* Fuck., cujus pycnidium, teste Fuck.

8. **Cornularia Viburni** Sacc. *Cenangii Viburni* pycnidium Fuck. 3259
Symb. p. 272. — Peritheciis sparsis cæspitosisve, elongato-conicis, subinde parum ventricosis, acutis, quandoque ramosis, lineam longis, aterrimis, subtilissime perforatis, globulo sordido, minuto coronatis; sporulis anguste fusiformibus, curvatis, 1-3-septatis, septis obscuris, sed distinctis, multiguttulatis, 68 ≃ 4 (medio), hyalinis.

Hab. in ramis corticatis Viburni Opuli in Rhenogovia.

ERIOSPORA B. et Br. Ann. N. H. n. 438, Berk. Outl. p. 323 (Etym. *erion* lana, et *spora*). — Stroma depressum intus multicellulare, loculi subglobosi; sporulæ fasciculato-quaternatæ v. senæ, filiformes, continuæ, hyalinæ, basidio brevi communi suffultæ, tandem per orificium commune ejectæ.

1. **Eriospora leucostoma** B. et Br. Ann. N. H. n. 438, p. 17, t. XI. 3260
f. 1. Fuck. Symb. p. 398. — Maculis piceo-atris; stromate depresso, effuso, tenui, marginali, vix 2 mill. lat., centro ore punctiformi, albo-limbato, pulverulento dehiscente; loculis numero variis subglobosis v. mutua pressione subcompressis; sporulis fasciculato-quaterno-senis, filiformibus, continuis, hyalinis, basidio communi brevi crassiusculo suffultis, mox secedentibus et per os commune expulsis.

Hab. in foliis emortuis Typhæ, Caricis silvaticæ et strictæ in Britannia et Rhenogovia.

DILOPHOSPORA Desm. Ann. Sc. nat. 1840, pag. 67 (Etym. *dis* bis, *lophos* crista, et *spora*). — Perithecia globulosa, pertusa, sæpius crustula stromatica tecta. Sporulæ cylindraceæ, continuæ, hyalinæ, utrinque setuloso-penicillatæ.

1. **Dilophospora Graminis** Desm. Ann. Sc. nat. 1840, p. 67, t. I. f. 2, 3261
Richon, Not. *Dilophosp.* cum icone. — Peritheciis minutis, crustula stromatica nigricante tectis, seriatis, subconnatis, globosis, stromate immersis, ostiolis punctiformibus, nigris, disco albido; sporu-

lis cylindricis, 10 ≃ 1,7-2, hyalinis, utrinque truncatis setulasque divergentes, 4-6 filiformes, subinde furcatas, 4-5 ≃ 0,5 gerentibus.

Hab. in vaginis et spicis Alopecuri agrestis, Tritici, Festucæ ovinæ in Gallia, Britannia, Belgio.

2. **Dilophospora Geranii** Schröt. Nord. Pilz. p. 16. — Peritheciis gre- 3262
gariis, subepidermicis erumpentibusque, globoso-depressis, papillulatis, 0,3 mill. diam., nigris; sporulis oblongo-cylindraceis, utrinque rotundatis, 14-17 ≃ 4,5-6, continuis, hyalinis, infra apicem setulam 2-3-dichotomo-ramosam, teneram gerentibus, ramulis patulis, recurvis sporulam duplo triplove superantibus.

Hab. in petiolis emortuis Geranii silvatici, Quickjok et Wallibacken Lapponiæ suecicæ. — « Videretur fere *Pestalozziella* perithecio instructa. »

CYTOSPORINA Sacc. Mich. II. p. 263 (Etym. a *Cytospora*, cui affinis), *Dumortiera* West. Bull. Not. V. p. 29, nec Nees. — Stroma valseum, verruciforme v. effusum, corticale v. lignicolum; peritheciis subimmersis, ostiolis variis sæpe emergentibus. Sporulæ filiformes, curvulæ, hyalinæ, continuæ, basidiis variis suffultæ. — Hoc genus se habet præ *Cytospora* ut, inter Melanconieas, *Libertella* præ *Næmospora*.

1. **Cytosporina ludibunda** Sacc. Mich. I. p. 519 (*Cytospora*). — Stro- 3263
matibus subcutaneis variis nigro-cinctis, pluricellularibus, aureo-farctis; sporulis filiformi-hamatis, 25-30 ≃ 1, hyalinis, basidiis acicularibus simpliciter verticillatis, 15-20 ≃ 2, hyalinis suffultis, in cirros flavo-roseos protrusis.

Hab. in ramis Robiniæ Ulmi et Pruni in Italia et Gallia.

2. **Cytosporina Siliquastri** (West.) Sacc. *Dumortiera Siliquastri* West. 3264
Not. VIII. p. 6. Kickx Fl. crypt. Fl. I. p. 447. — Stromate effuso, *Eutypæ scabrosæ* analogo; peritheciis sphæricis, nigris, stromato ligneo immersis, ostiolis brevibus, papillatis; sporulis filiformibus, utrinque attenuatis, vehementer curvatis, hyalinis, 15 ≃ 1,5; cirro flavo-carneo.

Hab. in ligno denudato Cercidis Siliquastri in Belgio (Westendorp).

3. **Cytosporina rostrata** (West.) Sacc. *Dumortiera rostrata* West. 3265
Not. V. p. 29, tab. I. f. 14. — Stromate effuso, atro; peritheciis immersis, ostiolis rostratis; sporulis fusoideo-bacillaribus semilunari-arcuatis, utrinque attenuatis, 3-4-guttulatis, in cirros carneos, tortuosos dein ejectis.

Hab. in ligno putri Robiniæ (?) pr. Mons in Hollandia.

4. **Cytosporina millepunctata** Sacc. *Cryptosphæriæ millepunctatæ* st. spermog. Nits. Pyr. Germ. p. 160, Sacc. Syll. I. p. 182. — Stromatibus subglobosis, minutis, subunilocularibus, pallidis, sparsis, subcutaneis; sporulis subsessilibus, filiformi-cylindricis, longis hyalinis, varie curvatis, tandem in cirros pulchre roseos v. luteos protrusis, 40–48 ≃ 1. 3266

Hab. in ramis emortuis Fraxini excelsioris in Germania.

5. **Cytosporina myriocarpa** Sacc. *Cryptosphæriæ myriocarpæ* st. sperm. Nits. Pyr. Germ. p. 159. Sacc. Syll. I. p. 183. — Stromatibus cavernulas sistentibus minutissimas, simplices, suborbiculares vel ellipticas, pallidas sub peridermio translucido cortici vel stromati juniori immersis, sparsis; sporulis filiformibus, exilissimis, utrinque acutiusculis, hyalinis, curvulis, subsessilibus, 24 ≃ 1. 3267

Hab. in ramis exsiccatis Fagi silvaticæ prope Münster Germaniæ.

6. **Cytosporina stellulata** Sacc. *Eutypellæ stellulatæ* st. sperm. Nits. Pyr. Germ. p. 165. Sacc. Syll. I. p. 149. — Stromatibus multilocularibus, valsoideis, crustæformibus; sporulis filiformi-cylindricis, curvatis, 20–25 μ. longis, tandem in cirros aureos protrusis. 3268

Hab. in ramis Ulmi campestris et U. effusæ in Suecia et in Germania.

7. **Cytosporina cerviculata** Sacc. F. V. Ser. IV. p. 16 (*Cytospora*) *Eutypellæ cerviculatæ* st. sperm. Sacc. l. c. et Syll. I. p. 146. — Stromatibus valsoideis, extus nigris, rugosis (non vero ostiolatis) intus fusco-rubescentibus, minute plurilocularibus, loculis subglobosis; sporulis filiformibus, arcuatis, 20–22 ≃ 0,7, sterigmatibus cylindraceis sursum attenuatis 20 ≃ 1 fasciculatis suffultis, tandem in cirros rubellos protrusis. 3269

Hab. in ramis crassioribus Carpini Betuli in Italia bor.

8. **Cytosporina milliaria** Sacc. *Eutypæ milliariæ* st. sperm. Nits. Pyr. Germ. 149. — Stromatibus minutissimis, punctiformibus, pallidis, subglobosis, unilocularibus, ligni strato supremo leviter immersis, tandem poro vel rimula apertis; sporulis filiformibus, varie curvatis, 24 ≃ 1. 3270

Hab. in ligno duriore Quercus, Fagi, Staphyleæ in Suecia et Germania.

9. **Cytosporina aspera** (Wallr.) Sacc. *Cytospora aspera* Wallr. Fl. crypt. 751 (?) Sacc. Mich. II. p. 264. — Stromatibus subcutaneis, corticem nonnihil elevantibus, vix perforantibus, subcircularibus, 3271

plurilocularibus, nigris; sporulis cylindraceis leniter curvis, 18–20 ≃ 1½, hyalinis, quandoque 1-2-guttulatis, basidiis brevibus, teretibus fasciculatis suffultis; cirris non visis.

Hab. in ramis corticatis Fagi silvaticæ in silva Cansiglio Ital. bor. et in Germania. — *Diatrypes disciformis* aut *Diatrypellæ asperæ* probabile spermogonium.

10. **Cytosporina Ailanthi** Sacc. Mich. II. p. 265 (*Cytospora*). — Stro- 3272
matibus plurilocularibus, nigris, stromate ligneo nigro-limitato insidentibus corticeque obvelatis; sporulis filiformi-curvatis, 15 ≃ ½, hyalinis, demum in cirros aureos capillares intricatos protrusis.

Hab. in ramis Ailanthi, Selva, Padova Ital. bor. — *Eutypellæ Ailanthi* st. sperm. Sacc. Syll. I. p. 157.

11. **Cytosporina heteracantha** Sacc. Mich. II. pag. 344 (*Cytospora*). 3273
— Stromatibus subunilocularibus, intus pallidis, sub epidermide elevata nidulantibus, globosis, sursum fasciculos hypharum (ut perithecia ascophora) emittentibus; sporulis filiformibus, 20–25 ≃ 1, arcuatis, hyalinis sterigmatibus brevibus fasciculatis fultis.

Hab. in ramis corticatis Juglandis regiæ, Salicis etc. in Italia boreali et Gallia. — *Eutypæ heteracanthæ* st. sperm. Sacc. Syll. I. pag. 177.

12. **Cytosporina juglandicola** Sacc. Mich. II. p. 263 (*Cytospora*). — 3274
Stromatibus atris subcutaneis epidermide tumidula, denique fissa tectis, plurilocularibus, nucleis roseo-flavis; sporulis filiformi-hamatis 20 ≃ ¾, copiosissimis, in cirros dilute flavos elongatos tortos denique protrusis, sterigmatibus filiformibus ramosis simplicibusve, 30–50 μ. longis suffultis.

Hab. in ramis corticatis Juglandis regiæ, Padova Ital. bor.

13. **Cytosporina peregrina** (M. et Fr.) Sacc. *Sphæria peregrina* M. 3275
et Fries. Not. in Ann. Sc. nat. II. 1. p. 340, t. 11, f. 4. — Obtecta, sparsa, raro confluens; peritheciis cylindrico-conicis truncatis, atris opacis, spiraliter plicato-striatis, epidermide adnata tectis, ostiolo tandem poro pertuso; sporulis filiformi-linearibus curvulis.

Hab. in ramis Broussonetiæ papyriferæ pr. Lyon Galliæ.

14. **Cytosporina Fusarium** (Niessl) Sacc. *Cytospora Fusarium* Niessl 3276
Mähr. Crypt. Fl. p. 41. — Stromatibus gregariis, conicis; peritheciis lageniformibus, ostiolis longis stromate immersis; sporulis longissime fusoideis exilibus, curvis flexuosisque, acutis, 36–48 ≃ 1,6, hyalinis, 5–7-guttulatis.

Hab. in ramis emortuis Populi pr. Brünn Moraviæ.

15. **Cytosporina leucomyxa** (Corda) Sacc. *Cytospora leucomyxa* (Corda) Rabenh. Deutsch. Crypt. Fl. n. 1341. *Næmaspora leucomyxa* Corda Ic. III. p. 27, fig. 71. — Pustulis gregariis, stromate atro partito, pseudostromate fusco; peritheciis carnosulis albis, paraphysibus catenulatis; sporulis longissimis curvatis, utrinque rotundatis hyalinis, pluriguttulatis, 62–74 ≃ 4–5. 3277

Hab. in ramis putrescentibus arborum frondosarum in Bohemia.

MICULA Duby in Hedw. 1858, n. 1., Sacc. Mich. II. p. 6 (Etym. a *micula*, ob parvitatem). — Perithecia erumpenti-subsuperficialia, discreta, gregaria, globoso-conica, subsuberosa. Sporulæ filiformes, curvulæ, continuæ, pluriguttulatæ hyalinæ, basidiis brevibus suffultæ. — *Micropera* nimis affinis illique aptius forte subjungenda.

1. **Micula Mougeotii** Duby in Hedw. 1858, n. 1, t. I. f. A 1–8. *Sphæria Micula* Fr. Elench. II. p. 101. — Erumpens; peritheciis globosis pruinatis, albo-pallescentibus, ostiolo fuscescente; sporulis fusoideo-bacillaribus, 46 ≃ 2–2,3 curvulis v. sigmoideis breve stipitatis. 3278

Hab. in ramis languescentibus Rhamni alpini in Germania, Gallia, Helvetia. — Pycnidium *Cenangii Morthieri* Fuck. — Sparsa, erumpens, sed non valde prominens, minuta, puncto vix major, sub lente vero luculenter extus albido-pallescens, intus concolor, subfarcta; nucleo centrali atro. Ostiolum papilliforme, impressum, vel prominulum, fuscum.

2. **Micula Alni** Sacc. et Briard. — Peritheciis laxe gregariis, innato-erumpentibus, globulosis, papillulatis, sordide roseis, facile secedentibus; sporulis fusoideis, utrinque acutis, curvatis, 45–50 ≃ 3, pluriguttulatis, hyalinis. 3279

Hab. in ramulis corticatis Alni glutinosæ prope Troyes Galliæ (Briard).

MICROPERA Lév. Ann. Sc. nat. 1846, p. 283, Sacc. Mich. II. p. 6. (Etym. *micros* parvus, et *pera* saccus). — Perithecia erumpenti-superficialia, sæpius dense cæspitosa, suberoso-coriacea, sæpe furfuracea, globoso-conica vel subelongata, ostiolo spurio. Sporulæ fusoideo-filiformes, flexuosæ v. arcuatæ, pluriguttulatæ, hyalinæ, basidiis brevibus suffultæ. — Pycnidia, ut videtur, *Cenangiorum*.

1. **Micropera rubida** B. et C. North Amer. Fungi n. 465. — Trans- 3280

versim erumpens, rubida; sporulis filiformibus longissimis plasmate hinc inde interrupto.

Hab. in ramis Cerasi in Pensylvania Amer. bor. (Michener).

2. **Micropera Drupacearum** Lév. Ann. Sc. nat. III. 5, pag. 283. *M. Cerasi* Sacc. Myc. Ven. p. 160, t. XVII. f. 13–15. — Peritheciis pustulatis, innatis, conico-subcylindraceis, pro mutua pressione difformibus rufo-fuscis; ostiolo albido; sporulis anguste cylindraceo-fusoideis, curvatis v. contortis, 50 ≃ 3, hyalinis, nucleo transverse multipartito. 3281

Hab. in ramis emortuis Cerasorum et Prunorum in Britannia, Italia, Gatlia, Gorizia et America boreali. — Pycnidium *Cenangii Cerasi* Fr.

3. **Micropera Cotoneastri** (Fr.) Sacc. *Sphæria Cotoneastri* Fr. in Kunze Myk. Heft. II. p. 46. — Gregaria, inter epidermidis membranas incusa, erumpens; peritheciis subovatis, globiferis, nigris, collabascendo depressis inæqualibus. 3282

Hab. ad corticem Cotoneastri et aliarum arborum e familia Rosacearum in Germania et Suecia. — Forma valde inconstans, sed situ facile dignoscitur. Junior mollis, globulo instructa subfusca, dein pertusa, demumque rimose dehiscens. Intus nigra, prominens.

4. **Micropera padina** (Pers.) Sacc. Mich. II. p. 104. *Sphæria padina* Pers. in Moug. et Nestl. Exs. n. 667. — Peritheciis subsolitariis, ferrugineis, apice nigrescentibus, conico-umbilicatis, dein subpezizoideis; sporulis cylindraceo-fusoideis, 25–30 ≃ 3½–4, hyalinis, basidiis brevioribus, filiformibus suffultis. 3283

Hab. in ramis emortuis Pruni Padi in Vogesis. — Ut synonymon *Sphæronæmatis brunneo-viridis* a quibusdam habetur, sed satis differt. Cfr. Syll. III. p. 186.

5. **Micropera Sorbi** (Fr.) Sacc. Mich. II. p. 628. *Sphæria Cotoneastri* β. *Sorbi* Fr. S. M. II. p. 494 *Micropera Drupacearum* (in Sorbo) Lév. — Peritheciis (spuriis) laxe gregariis, erumpentibus, globoso-depressis; sporulis fusoideis utrinque acutis, curvulis 15–16 ≃ 1¾–2, hyalinis, basidiis verticillato-ramosis 20–25 ≃ 2½ suffultis, strato sporigero fusco-violaceo. 3284

Hab. in ramis corticatis Sorbi Aucupariæ in Arduennis (Libert). — Sec. Fuck. pycnidium est *Cenangii inconstantis* (Fr.).

6. **Micropera betulina** Sacc. et Roum. Sacc. Mich. II. p. 628. — Peritheciis (spuriis) laxe gregariis, cortice nidulantibus et vix erumpentibus globulosis, nucleo farcto; sporulis fusoideis, rectiusculis 3285

utrinque obtuse attenuatis, 18–20 ≃ 3, hyalinis, basidiis simpliciter v. bis dichotome ramosis, 30–35 ≃ 2–3 suffultis.

Hab. in cortice Betulæ in Arduennis (Libert). — Prob. pycnidium cujusdam *Cenangii*.

7. **Micropera decorticans** Lév. Ann. Sc. nat. 1848, p. 254. — Peritheciis gregariis innatis, subcarnosis, conicis, basi applanatis, levibus, lutescentibus, epidermide rupta cinctis; sporulis rectis lineari-fusoideis, utrinque acutis, pellucidis, nucleatis. 3286

Hab. in ramis Ilicis Aquifolii in Vogesis.

8. **Micropera roseola** Lév. Ann. Sc. nat. 1846, p. 283. — Peritheciis innatis, confertis, elongatis v. globosis basi liberis, ostiolis transversim erumpentibus, subvillosis, roseolis; sporulis fusoideis, arcuatis. 3287

Hab. in cortice Cerasorum in Gallia. — «Videretur forma subsparsa *Micr. Drupacearum.*»

9. **Micropera tenella** Sacc. et Ell. Sacc. Mich. II. p. 573. — Peritheciis dense gregariis, subsuperficialibus, lateritiis, globosis, vix papillatis, denique collabascentibus, contextu cellulari, olivaceo-rufescente; sporulis bacillaribus, curvulis, 25–30 ≃ 2, continuis, hyalinis (humiditate exsilientibus); basidiis obsoletis. 3288

Hab. in cortice interiore Thujæ, Newfield N. J. Americæ borealis (Ellis).

10. **Micropera Pinastri** (Moug.) Sacc. Mich. II. p. 104. *Cenangium Pinastri* Moug. Stirp. Vog. Fr. S. M. II. p. 184. Fr., Erb. crittog. ital., nec Auct. recent. *Dothichiza Pinastri* Lib. in Roum. Rev. Mycol. — Peritheciis erumpenti-cæspitosis, globoso-conicis, piceis, nitidis, duriusculis, apice dein apertis; sporulis fusoideo-falcatis, 50–60 ≃ 5–7, pluriguttulatis, hyalinis, basidiis bacillaribus multo brevioribus fultis. 3289

Hab. in cortice Pinorum in Gallia, Germania, Italia, frequens.

11. **Micropera Taxi** Sacc. Mich. II. p. 539. — Peritheciis erumpenti-superficialibus, gregariis v. hinc inde aggregatis, $^1/_6$–$^1/_5$ mill. diam., fuscescentibus, globosis apice obtusiusculis, pertusis; contextu subsinuoso-parenchymatico, ochraceo; sporulis fusoideo-acicularibus curvis v. tortuosis, utrinque acutis 50–60 ≃ 3,5–4,5, 5–7-guttato-pseudoseptatis, non constrictis, hyalinis; basidiis acicularibus brevibus e basi sporigera lutescente oriundis. 3290

Hab. in cortice Taxi baccatæ, Conegliano Italiæ borealis (Spegazzini).

REPERTORIUM

SPHÆRIOIDEARUM SCOLECOSPORARUM

SECUNDUM MATRICES

Obs. C. indicat *Cornularia*. — Cy. *Cytosporina*. — D. *Dilophospora*. — E. *Eriospora*. — G. *Gelatinosporium*. — M. *Micula*. — Mo. *Micropera*. — P. *Phleospora*. — Pa. *Phlyctæna*. — R. *Rhabdospora*. — S. *Septoria*. — Sm. *Sphærographium*.

N. 2254 — 2999 citantur 554 — 999
N. 3001 — 3290 citantur 1 — 290

Abies — S. 737. 32. — R. 179. — Pa. 242. — C. 252.
Acanthus — S. 903.
Acer — S. 571. 572. 573. 574. 575. 576. — P. 135. — R. 168.
Achillea — S. 973.
Aconitum — S. 849. 850.
Adenophora — S. 953.
Adoxa — S. 945.
Ægopodium — S. 870. 871. 872.
Æsculus — S. 577. 578. 579.
Ætheorrhiza — S. 994.
Agave — S. 109.
Agropyrum — S. 40.
Ailanthus — Cy. 272.
Alisma — S. 93. 94. 95.
Allium — S. 104. 105. 106.
Alnus — S. 734. 735. 736. — R. 170. — M. 279.
Aloe — S. 110.
Alopecurus — S. 51. — D. 261.
Althæa — S. 791. 793. — R. 193.
Andromeda — S. 663.
Andropogon — S. 59.
Anemone — S. 820. 829.
Angelica — R. 199.
Anoda — S. 559.
Anthriscus — S. 877.
Antirrhinum — R. 195.
Apium — R. 200.
Aplotaxis — S. 972.
Apocynum — S. 938.
Aquilegia — S. 851.
Arabis — S. 813. — R. 196.
Arauja — S. 939. 940.
Arbutus — S. 661.
Arisarum — S. 84.
Aristolochia — S. 23.
Armoracia — S. 814.
Arnica — S. 971.
Artemisia — S. 970.
Artocarpus — S. 698. 699.
Arum — S. 85.
Arundo — S. 60. 61. 65. 66.
Asarum — S. 24.
Asphodelus — S. 93.
Aster — S. 981.
Astragalus — S. 748.

Atriplex — S. 14.
Aucuba — S. 650.
Azalea — Sm. 246.

Baccharis — S. 962.
Balsamina — S. 784.
Baptisia — S. 749.
Barkhausia — R. 200.
Bellis — S. 975. 976.
Berberis — S. 556.
Berteroa — S. 815.
Beta — S. 13.
Betula — S. 730. 731. 732. 733. — R. 186. — Pa. 241. — Sm. 249. — Mo. 285.
Bidens — S. 969.
Bowlesia — S. 879.
Brachychiton — S. 563.
Rrachypodium — S. 42. 51. 54. 55. 57. 68.
Bromus — S. 51. 54. 68.
Broussonetia — R. 173. — Cy. 275.
Bryonia — S. 860.
Buffonia — Pa. 230.
Buddleja — S. 685. 686.
Bumelia — S. 666.
Bupleurum — S. 868. 869.
Buxus — S. 691.

Calamagrostis — S. 53.
Calla — S. 86.
Calycanthus — S. 639.
Campanula — S. 947.
Cannabis — S. 19.
Capparis — S. 826.
Cardamine — S. 818.
Carex — S. 70. 71. 72. 73. 74. 75. 76. — E. 260.
Carpinus — R. 169. — Cy. 269.
Castanea — S. 720. 721. 722. 723. — Sm. 245.
Catalpa — S. 25.
Celtis — S. 693. 694.
Centaurea — S. 989.
Centranthus — R. 220. 221.
Cephalanthus — R. 166.
Cerasus — C. 254. — Mo. 280. 281. 287.
Cerastium — S. 808.
Ceratonia — S. 606.
Cercis — S. 607. 608. — Cy. 264.
Cestrum — S. 687.
Chærophyllum — R. 199. 204.
Cheiranthus — S. 823.
Chelidonium — S. 827.
Chelone — S. 892.
Chenopodium — S. 14. 15.
Chlora — R. 211.
Chionanthus — S. 678.
Cichorium — S. 990. 991.
Cirsium — S. 985. 987. — R. 218.
Citrus — S. 564. 565. 566. 567. 568. 569. 570. — R. 157. 158. — Pa. 238.
Clematis — S. 841. 842. 843. 844. 845. 846. — R. 198.
Colchicum — S. 96.
Convallaria — S. 113. 114. 115.
Convolvulus — S. 909. 910.
Coptis — S. 853.
Coriaria — S. 584.
Cornus — S. 651. 652.
Coronilla — S. 613.
Corylus — S. 717. 718. — R. 168.
Corynocarpus — S. 558.
Cotoneaster — Mo. 282.
Cratægus — S. 620. — P. 139.
Cucurbita — S. 860. 33.
Cuphæa — S. 779.
Cyclamen — S. 889.
Cyclanthera — S. 861.
Cydonia — S. 621. 622. — R. 153.
Cynanchum — S. 779. 935. 937. — R. 212.
Cynara — S. 983.
Cynodon — S. 50.
Cytisus — S. 611. 612. — P. 146.

Daphne — S. 689.
Datura — S. 906.
Delphinium — S. 847. 848.
Deutzia — S. 640.
Diapensia — S. 859.
Dictamnus — S. 787.

Digitalis — S. 900.
Dipsacus — S. 1. 2.
Dianthus — S. 795. 796. 801. 802. 803. — R. 207.
Dolichos — S. 753. 754.
Doronicum — S. 972.
Dracocephalum — S. 926.
Drymis — S. 614.
Dupontia — S. 36.

Elæagnus — S. 690.
Ephedra — R. 180. 181. 182.
Epilobium — S. 780. 781.
Epipactis — S. 124.
Equisetum — S. 128. 129.
Eranthis — S. 831.
Erigeron — S. 963. 964.
Eryngium — S. 883.
Erysimum — S. 822.
Erythronium — S. 111.
Eucalyptus — S. 641. 642.
Eupatorium — S. 959.
Euphorbia — S. 788. 789. 790. — R. 191. 192.
Evonymus — S. 594. 595.
Excæcaria — S. 700.

Fagus — S. 719. — R. 171. — Cy. 267. 270. 271.
Festuca — Q. 42. 47. — D. 261.
Ficaria — S. 833. 834.
Ficus — S. 695. 696. 697.
Fœniculum — R. 205.
Fragaria — S. 768.
Fraxinus — S. 669. 670. 671. 672. — R. 161. 162. — Sm. 250. — Cy. 266.
Fuchsia — S. 778.

Galeopsis — S. 923.
Galinsoga — S. 982.
Galium — S. 941. 942. 943. 944.
Garrya — S. 701.
Genista — R. 142. 143.
Gentiana — S. 931. 932.
Geranium — S. 785. 786. — D. 262.
Geum — S. 763. — R. 199.
Gladiolus — S. 122.
Globularia — S. 912.
Glyceria — S. 42.
Gnaphalium — R. 218.
Gossypium — S. 794. — Pa. 232.
Graminaceæ — S. 63. 67.
Gratiola — S. 897.
Gymnadenia — S. 125.

Hedeoma — R. 209.
Hedera — S. 642. 644. 645. 646.
Helleborus — S. 840. — R. 197.
Helianthus — R. 217.
Hepatica — S. 830.
Heracleum — S. 864. — R. 202. 203. 204.
Heterothalamus — R. 145.
Hibiscus — S. 560. 561.
Hieracium — S. 998.
Hippophaë — S. 688.
Holcus — S. 52.
Hordeum — S. 35.
Hosackia — S. 750.
Hoya — S. 963.
Humulus — S. 20.
Hydrocotyle — S. 880. 881. 882.
Hypericum — S. 791.

Iaborosa — S. 643.
Iasminum — S. 667. 668.
Ilex — S. 598. 599. 600. — Sm. 248. — Mo. 286.
Impatiens — S. 783.
Inula — S. 965.
Iresine — S. 16.
Iris — S. 123.
Iuglans — S. 703. 30. 31. — R. 172. — Cy. 273. 274.
Iuncus — S. 87.
Iussiæa — S. 776. 777.

Kalmia — S. 692.
Kœleria — S. 39.

Lactuca — S. 992. 993.
Lamium — S. 915. 916.
Lathyrus — S. 759. 760. 761. 762.
Lappa — S. 988. — Pa. 233.

Lavandula — S. 914.
Leersia — S. 45.
Lepidium — S. 816. 817.
Leucanthemum — S. 977. 978.
Leycesteria — S. 656.
Ligustrum — S. 680. 681.
Ligusticum — S. 878.
Linaria — S. 901. 902.
Liquidambar — S. 704.
Listera — S. 126.
Lobelia — S. 886.
Lolium — S. 35.
Lonicera — S. 653. 654. — P. 150. — R. 159. 160. — Sm. 243. 244.
Lophanthus — S. 918.
Ludwigia — S. 775.
Lupinus — S. 751.
Lychnis — S. 804. 805. — R. 195.
Lycopus — S. 928.
Lysimachia — S. 890.
Lythrum — S. 773. 774.

Magnolia — S. 554. 555. — P. 148.
Mahonia — S. 557.
Maianthemum — S. 116.
Malva — S. 917.
Marsdenia — S. 937.
Martinezia — S. 127.
Matthiola — S. 821.
Medicago — S. 747. — R. 188. 218.
Melianthus — S. 583.
Melica — S. 37. 38.
Melissa — S. 921.
Melittis — S. 922.
Menispermum — S. 11.
Mentha — S. 919. 920.
Menyanthes — S. 887.
Mercurialis — S. 21.
Mespilus — S. 623.
Micropera — Sm. 251.
Molinia — S. 58.
Morus — P. 136. 137.
Mulgedium — S. 957.

Nabalus — S. 966. — Pa. 235.
Nasturtium — S. 820.
Negundo — R. 167.
Nerium — S. 682. 683. — R. 164.
Nyssa — C. 256.

Œnothera — S. 782.
Olea — S. 675. 679. 29.
Onoclea — S. 130.
Orchis — S. 126.
Origanum — R. 210.
Ornithogalum — S. 100. 101.
Orobus — S. 757. 758.
Oryza — S. 48. 49.
Ostrya — S. 716.

Pæonia — S. 854. 855. 856.
Paliurus — S. 596.
Panicum — S. 68.
Paris — S. 117.
Passiflora — S. 27.
Pastinaca — S. 866. 867.
Paulownia — S. 684. — R. 165.
Pedicularis — R. 207.
Pelargonium — R. 190.
Pentastemum — S. 899.
Persica — P. 152. — C. 255.
Petroselinum — S. 876.
Peucedanum — S. 865.
Phalaris — S. 51.
Phaseolus — S. 34.
Phillyrea — S. 674. 676. 677.
Phlox — S. 893.
Photinia — S. 638.
Phragmites — S. 60. 62. 63. 64.
Phyteuma — S. 951. 952.
Phytolacca — Pa. 226. 227. 228.
Pilea — S. 22.
Pinus — S. 738. — R. 177. 178. — C. 253. — Mo. 289.
Pircunia — S. 7.
Pirola — S. 885.
Pirus — S. 624. 625. 626. — P. 28.
Pistacia — S. 601.
Pisum — S. 755. 34. — R. 189.
Plantago — S. 917. 4. 5. 6. — R. 222.
Platanthera — S. 126.
Platanus — S. 702.
Poa — S. 56.
Podocarpus — S. 739.

Polygonum — S. 8. 9. — Pa. 229.
Podophyllum — S. 852.
Polemonium — S. 908.
Polygala — S. 824. 825.
Polygonatum — S. 114.
Polytrichum — S. 133.
Populus — S. 712. 713. 714. 715. — R. 174. — Pa. 237. — C. 258. — Cy. 276.
Potentilla — S. 764. 765. 766. 767.
Prunus — S. 629. 630. 631. 632. 633. 634. 635. 636. 637. — Cy. 263. — Mo. 281. 283.
Pteris — S. 131.
Pulmonaria — S. 911.

Quercus — S. 724. 725. 726. 727. 728. 729.

Ranunculus — S. 835. 836. 837. 838. 839. — C. 199.
Rhamnus — S. 586. 587. 588. 589. 590. 591. 592. 593. — M. 278.
Rheum — S. 10. — R. 223.
Rhipogonum — Pa. 239.
Rhododendron — S. 662. — Sm. 247.
Rhus — S. 602. 603. 604. 605.
Rhynchospora — S. 88.
Ribes — S. 647. 648. 649. — R. 140.
Robinia — S. 609. 610. — P. 147. — C. 255. — Cy. 263. 265.
Rosa — S. 615. 616. 617.
Rosaceæ — Mo. 282.
Rubia — R. 213.
Rubus — S. 619. — P. 151.

Salix — S. 705. 706. 707. 708. 709. 710. 711. — R. 175. 176. — Pa. 238. — Cy. 273.
Salpichroa — S. 907.
Salvia — S. 927.
Sambucus — S. 655. 946.
Saponaria — S. 797.
Saussurea — S. 968.
Saxifraga — S. 857.
Scabiosa — S. 909. — R. 219.
Scandix — R. 201. 206.
Scilla — S. 102.
Scirpus — S. 77. 78. 79. 80. 81. 82. 83.
Scleranthus — S. 810.
Sclerochloa — S. 46.
Scleropus — S. 17.
Scolopendrium — S. 132.
Scolymus — S. 984.
Scrophularia — S. 898.
Scutellaria — S. 924.
Sedum — S. 858.
Senecio — S. 979. 980. — Pa. 236.
Seseli — S. 874.
Silene — S. 797. 798. 799. 800.
Sison — S. 875.
Sisymbrium — S. 819.
Sium — S. 873.
Smilax — S. 120. 121. — Pa. 240.
Soja — S. 752.
Solanum — S. 904. 905. — R. 218.
Soldanella — S. 888.
Solidago — S. 960. 961. — R. 199. 215. 216. — Pa. 284.
Sonchus — S. 995. 996. 997.
Sorbus — S. 627. 628. — P. 149. — Mo. 284.
Sparganium — S. 92.
Spartium — S. 26. — R. 144.
Specularia — S. 948. 949. 950.
Spergula — S. 809.
Spinacia — S. 12.
Spiræa — S. 618. 770. 771. 772.
Stachys — S. 925.
Staphylea — S. 585. — Cy. 270.
Stellaria — S. 806. 807.
Succisa — S. 3000.
Symphoricarpus — Pa. 231.
Symplocos — S. 664. 665.
Syringa — S. 673.

Tamus — S. 118. 119. — Pa. 226.
Tanacetum — S. 958.
Taxus — Mo. 290.
Teucrium — S. 929. 930.
Thuja — Mo. 288.
Tilia — S. 562.
Tormentilla — S. 766.
Trianospermum — S. 862.

Trientalis — S. 891.
Trifolium — S. 746. — R. 187.
Trillium — S. 112.
Triticum — S. 41. 42. 43. 44. 68. — D. 261.
Trollius — S. 832.
Tunica — R. 194.
Tussilago — S. 954. 955. 956.
Typha — S. 89. 90. 91. — E. 260.

Ulmus — P. 138. — Pa. 231. — Cy. 263. 268.
Umbelliferæ — S. 863.
Urginea — S. 103.
Urtica — S. 18.

Vaccinium — S. 658. 659. 660.
Veratrum — S. 97.
Verbascum — S. 894.
Verbena — S. 913. — R. 208.
Veronica — S. 895. 896.
Viburnum — S. 657. — R. 163. — C. 259.
Vicia — S. 756.
Villarsia — S. 933. 934.
Viola — S. 811. 812.
Viscum — S. 884.
Vitis — S. 580. 581. 582. — R. 154. 155. 156. 157.

Waldsteinia — S. 769.
Wahlenbergia — R. 214.
Wyethia — S. 967.

Yucca — S. 107. 108.

Xanthium — S. 3.

Zea — S. 69.
Zizyphus — S. 597.

Fam. 2. **Nectrioideæ** Sacc.

Perithecia et stroma (ubi adest) carnosula v. ceracea, læticoloria (albida, flava, rubra, aurantiaca) globulosa v. rarius hysterioidea v. subcupulata. Sporulæ variæ, hucusque hyalinæ. — Formæ, ut plurimum, metageneticæ *Hypocreacearum*.

Clavis analytica generum.

Subcohors I. Zythieæ Sacc.

Perithecia subglobosa, sphæriæformia.

Sect. 1. **Hyalosporæ** Sacc.

Sporulæ globosæ, ovoideæ v. oblongæ, continuæ, hyalinæ.

I. Perithecia e tunicâ simplici composita.

A) Simplices.

§ Perithecia erostria.

Zythia. Perithecia globulosa, subpapillata, glabrescentia, epiphyta.

Collacystis. Perithecia globulosa, pilosa, epizoa.

Roumeguèriella. Perithecia irregulariter dehiscentia; sporulæ muriculatæ (initio catenulatæ sec. Cooke).

Libertiella. Perithecia ostiolo amplo, crateriformi, discolori instructa; sporulæ leves.

§§ Perithecia rostrata.

Sphæronæmella. Est quasi Sphæronæma carnosulum, læticolor.

B) Compositæ.

Aschersonia. Stroma verruciforme vel turbinatum, intus pluri-loculatum. Est quasi Hypocrea basidiospora.

II. Perithecia e tunicâ duplici composita.

Dichlæna. Perithecii vitellini tunica exterior tandem circumscissa.

Sect. 2. **Didymosporæ** Sacc.

Sporulæ ellipsoideæ v. oblongæ, 1-septatæ, subhyalinæ.

Pseudodiplodia. Perithecia ceraceo-carnosula, mox ore lato aperta. Sporulæ dilute olivaceæ.

Sect. 3. **Phragmosporæ** Sacc.

Sporulæ oblongæ v. fusoideæ v. breve cylindraceæ, 2-pluriseptatæ, hyalinæ.

Stagonopsis. Sporulæ oblongo-fusoideæ, 2-pluriseptatæ, indivisæ.

Chiastospora. Sporulæ decussato-4-radiatæ, radiis cylindraceis, inæqualibus, septatis.

Sect. 4. Scolecosporæ Sacc.

Sporulæ filiformes v. bacillares, continuæ v. pluriseptatæ, hyalinæ.

Polystigmina. Stroma disciforme, convexulum, rubro-aurantiacum, intus pluriloculare. Sporulæ filiformi-hamatæ.

Subcohors II. Patellineæ Sacc.

Perithecia subcupulata v. subhysterioidea.

Hysteromyxa. Perithecia (genuina?), applanata, oblonga, rimose v. substellatim hiantia, glabrescentia.
Paiellina. Perithecia patellari-cupulata, pezizoidea, glabrescentia.
Cyphina. Perithecia subcupulata, pilis longis albidis vestita.

ZYTHIA Fr. Summa p. 407, ex p. (Etym. a *zyo* vel *zeo* scateo, forte ob sporulas exsilientes), *Phomopsis* Sacc. Mich. II. p. 272. — Perithecia erumpentia vel subsuperficialia, globulosa, plus vel minus distincte papillata, ceraceo-molliuscula, albida, rosea, rufula vel aurantiaca. Sporulæ ovoideæ vel oblongæ, continuæ, hyalinæ, basidiis variis fultæ. — Habitus *Nectriæ* quacum sine dubio metagenetice connectitur.

1. **Zythia aurantiaca** (Peck) Sacc. *Sphæronæma aurantiacum* Peck Rep. St. Mus. N. York t. II. f. 9–11. — Peritheciis minutis erumpentibus, hemisphæricis vel subconicis subinde ostiolo leniter papillato, aurantiacis; sporulis oblongo-ellipsoideis, hyalinis 7–10 μ. long., in globulum carneolum terminalem denique coactis. 3291

   Hab. in cortice Corni alternifoliæ, Bethlehem Amer. bor.

2. **Zythia citrinella** (Lév.) Sacc. *Sphæropsis citrinella* Lév. Ann. Sc. Nat. p. 62. — Hypophylla sparsa; peritheciis globosis, aurantiacis, stromate subgloboso carnoso flavo, basi fibrilloso radiato insidentibus, ostiolis papillatis; sporulis fusoideo-elongatis, hyalinis. 3292

   Hab. in foliis deciduis Myrtaceæ ignotæ in insula Java.

3. **Zythia Versoniana** Sacc. Mich. II. p. 272 *(Phomopsis)*. — Peritheciis dense gregariis, innato-erumpentibus, globulosis, subastomis, rufescentibus, $^1/_8$ mill. d., contextu parenchymatico interne rufescente, externe olivaceo-ochraceo; sporulis fusoideis, 18–20 ≃ 2–4, hyalinis, basidiis bacillaribus fasciculatis, 18–20 ≃ $1^1/_2$, suffultis. 3293

   Hab. in fructibus immaturis dejectis Punicæ Granati, Torreglia Padova Italiæ bor., sociâ *Nectriellâ Versonianâ*, cujus certe spermogonium.

4. **Zythia annularis** (B. et Br.) Sacc. *Sphæropsis annularis* B. et Br. Cub. Fungi n. 792. — Lateritia; peritheciis centro depressis; sporulis subcuneiformibus, 12 μ. longis. 3294

Hab. in ligno putri in insula Cuba. — Habitus omnino *Nectriæ* collapsæ.

5. **Zythia Mercurialis** (Lib.) Kickx Fl. Crypt. Fl. I. p. 449, *Sphæronæma Mercurialis* Lib. Exs. n. 264. — Peritheciis sparsis v. aggregatis, sordide flavis, dein ferrugineis, tandem brunneo-nigricantibus, globulosis, poro pertusis; sporulis oblongis v. ovoideis perexiguis mox in globulum luteolum ejectis. 3295

Hab. in foliis, petiolis caulibusque Mercurialis perennis in Belgio et Arduennis.

6. **Zythia Brassicæ** Sacc. et Roum. Reliq. Libert. Ser. IV. n. 120. — Peritheciis superficialibus densissime gregariis, globoso-inæqualibus, ostiolo obsoleto, flavo-mellis, 1/3 mill. d., contextu laxe et indistincte parenchymatico, subochraceo; sporulis elongato-teretibus, 10–11 ≃ 2,5–3, hyalinis; basidiis non visis. 3296

Hab. in cortice interiore Brassicæ putrescentis in Arduennis (Libert). — Forte *Nectriellæ Keithii* spermogonium.

7. **Zythia elegans** Fr. Summa p. 408, *Perisporium elegans* Fr. Scl. Suec. n. 460, *Sphæronæma elegans* De Not. Micr. it. Dec. III. n. 8. — Peritheciis gregariis subcutaneo-erumpentibus, globoso-conoideis, obtusis, poro pertusis, siccitate collabascendo umbilicatis, initio subcarneis, tandem fuscis; sporulis cylindraceis, subinde leniter curvis, chlorino-hyalinis, sessilibus, utrinque truncatis, mox cirrose expulsis, 6–7 ≃ 1,4. 3297

Hab. in caulibus herbarum majorum in Suecia et Italia.

8. **Zythia leucoconia** (B. et Br.) Sacc. *Sphæronæma leucoconium* B. et Br. Ann. N. H. n. 405. — Gregaria; peritheciis hyalinis, plano-convexis, depressis, satis irregularibus, simpliciter pertusis, muticis, subiculo ramoso-floccoso albo insidentibus; sporulis minutis, ellipsoideis. 3298

Hab. in radice corrupta Betæ, King 's Cliffe Britanniæ.

9. **Zythia Rhinanthi** (Lib.) Fr. Summa Veg. p. 408, Kickx Fl. crypt. Fl. I. p. 447, *Sphæronæma Rhinanthi* Lib. Exs. n. 263. — Peritheciis sparsis, nigris, globoso-depressis, non papillatis; globulo sporaceo minuto albo. 3299

Hab. in caule capsulisque Rhinanthi Cristæ-galli in Belgio et Arduennis. — Habitus *Phomæ complanatæ*. «Si perithecia jugiter nigra, an potius *Phomæ* species?».

10. **Zythia compressa** Schw. Syn. Amer. bor. n. 2130. — Sparsa et gregaria; peritheciis parabolico-conicis subcompressis, spadiceis, subdiaphanis; globulo spermatico candido, demum penicillato. 3300

Hab. in Polyporo frondoso, rara, Bethlehem in Amer. bor. — Optime distincta ab *Eleutheromycete subulato*, cui habitu affinis.

COLLACYSTIS Kunze in Güntz Das Leichnam, I. p. 212, Fr. S. V. S. p. 407 (Etym. *colla* gluten, et *cyste* uter). — Perithecia subglobosa, firmula, lutescentia, floccis seu hyphis brevibus fasciculatis obtecta, iisque hinc illinc radicantia. Sporulæ globulosæ pallidæ.

1. **Collacystis putredinis** Kunze l. c. Fr. l. c. — Peritheciis $^1/_2$–1 mill. diam., sparsis vel aggregatis, ceraceis dein coriaceo-duriusculis, hyphis brevibus albidis cinctis. 3301

Hab. in cadavere humano semiputrido in Germania. — Bonorden, Abh. II. p. 135, citat speciem affinem in sacco putri in cellis lectam: peritheciis flavis dein olivaceis, minute celluloso-contextis; basidiis ramulosis sporulas globosas hyalinas gerentibus.

ROUMEGUÈRIELLA Speg. in Roum. Rev. Myc. (Etym. a cl. C. Roumeguère, meritissimo cryptogamologo gallo). — Perithecia sphærica, membranaceo-cartilaginea, alba vel læte colorata, irregulariter dehiscentia. Sporulæ numerosissimæ globosæ, in nucleum mucosum a perithecio discretum congestæ. Basidia evanescentia vel non visa. — Genus memorabile, teste Spegazzinio, inter Sphæropsideas et Hyphomyceteas ambiguum.

1. **Roumeguèriella muricospora** Speg. l. c., *Eurotium album* Lib. in Herb. et Cooke in Grevillea. — Peritheciis sphæricis, puncto centrali matrici adfixis, 0,3-0,4 mill. diam., membranaceo-tenaciusculis, contextu crassiuscule parenchymatico-membranaceo, roseo-flavo-albicantibus, irregulariter dehiscentibus; sporulis in nucleum gelatinosum conglutinatis, globosis, crassiuscule tunicatis, ubique densissime muriculato-asperulis, pallide flavis, 20 μ. diam. 3302

Hab. in foliis et ramentis dejectis putrescentibus prope Malmedy in Arduennis (Libert) et prope Toulouse Galliæ (Roumeguère). — Sec. Cooke in Grevill. sporulæ primo concatenatæ dein liberæ.

LIBERTIELLA Speg. et Roum. in Revue Mycol. (Etym. a Domina A. Libert meritissima cryptogamologa Arduennensi, cui quoque dicatum est genus diversissimum melanconieum *Libertella* Desm.).

— Perithecia carnosula, alba vel læte colorata, ostiolo late hiante donata, subsuperficialia. Sporulæ in basidiis acrogenæ, ellipticæ vel ovoideæ, hyalinæ. — *Zythiæ* valde affine genus.

1. **Libertiella malmedyensis** Speg. et Roum. l. c., *Zythia Peltigeræ* Lib. in Herb. et Cooke in Grevillea. — Peritheciis gregariis, hypophyllis, mollibus, carnosulis, globoso-conicis, albis, circa ostiolum late hians crateriforme fuscis, basi matrici innatis atque villosulis, siccitate cupulato-collabascentibus; gelatina sporulosa alba; 0,2, 0,3 mill. diam.; sporulis hyalinis, continuis, ellipticis vel ovoideis, granuloso-farctis, 5-6 ≃ 2-2½, basidiis subcylindraceis, 10 ≃ 2, suffultis. 3303

Hab. in hypophyllo thalli Peltigeræ polydactylæ prope Malmedy in Arduennis (Libert).

SPHÆRONÆMELLA Karst. Hedw. 1884, p. 17 (Etym. a *Sphæronæma*, cui habitu affinis). — Perithecia subsphæroidea, membranacea, tenuissima, mollia, læticoloria, sicca indurata, cornea, superficialia, glabra, ostiolo rostellato. Sporulæ ellipsoideæ, continuæ, hyalinæ interdum appendiculatæ vel muco obvolutæ, plerumque ad apicem rostri in globulum denique expulsæ.

1. **Sphæronæmella Mougeotii** (Fr.) Sacc. *Sphæria Mougeotii* Fr. Elench. II. p. 100, *Sphæronæma Hederæ* Fuck. Symb. p. 178. — Erumpens, sparsa; peritheciis piriformibus mollibus roseis, siccis longitudinaliter collabascentibus et sub lente obsolete pruinosis, ostiolo papilliformi rostrato obscuriore; sporulis oblongo-allantoideis, 3 ≃ 1, hyalinis. 3304

Hab. in sarmentis corticatis Hederæ Helicis in Gallia, Germania et Italia.

2. **Sphæronæmella acicularis** (Fr.) Sacc. *Sphæronæma aciculare* Fr. S. M. II. p. 536, *Sphæria dubia* Tode Meckl. fig. 118. — Peritheciis cylindrico-attenuatis griseo-nigricantibus, deorsum flavis, globulo albo lutescente. 3305

Hab. ad ligna quercina et pinea in Germania. — Affine *Sphær. rufæ* sed differt forma fere cylindrica, colore griseo semipellucido ad apicem deorsumque flavo, gelatina globosa flavescente. Basis passim strigosa.

3. **Sphæronæmella diaphana** (Fuck.) Sacc. *Sphæronæma diaphanum* Fuck. Symb. p. 399. — Peritheciis gregariis, conicis, olivaceis, seminis *Papaveris* magnitudine, diaphanis, demum atris, globulo sor- 3306

dido, gelatinoso, magno terminali; sporulis ellipticis, rectis, 12 ≃ 4, hyalinis.

Hab. in fragmentis Laricis europææ prope Œstrich in Rhenogovia.

4. **Sphæronæmella flavo-viridis** (Fuck.) Sacc. *Sph. flavo-viride* Fuck. Symb. Myc. p. 147. — Peritheciis irregulariter clavatis, cylindraceis vel basi incrassatis, 2 mill. vix altis, flavo-viridibus, dein pallidis, globulo terminali, persistenti pallidiore; sporulis minutis ovatis, hyalinis. 3307

Hab. in ligno putri carpineo et salicino, sociâ *Lasiosphæriâ hispidâ* cujus, teste Fuck., est spermogonium, in Rhenogovia.

5. **Sphæronæmella rufa** (Fr.) Sacc. *Sph. rufum* Fr. S. M. II. p. 536. — Peritheciis subulatis, acutis, rufis, deorsum pallidioribus, globulo limpido pallidiore; sporulis perexiguis oscillantibus globosis; basidiis fasciculatis 25 μ. longis. 3308

Hab. in lignis Pini inque Magnolia et Clethra in Suecia et America boreali. — Gregaria, junior mollis rufa, dein indurata, fusca, semper levis glabra.

6. **Sphæronæmella cincta** (Corda) Sacc. *Sph. cinctum* Corda Ic. IV. p. 39, f. 113. — Peritheciis solitariis majusculis, conicis, levibus, rufo-fuscis, supra in collum longum attenuatis, infra anulo basilari pallide fusco aculeolato cinctis; sporulis 3309

Hab. in asseribus pineis, Prag Bohemiæ.

7. **Sphæronæmella aurantiaca** (Ces.) Sacc. *Sphæronæma? aurantiacum* Ces. Myc. Born. p. 24. — Peritheciis membranaceis, 5 mill. altis, ligulatis vel difformibus, apice angustato obtuso, sub lente composita longitudinaliter lineatis, (in sicco) compressis; sporulis minutissimis, ovoideis, hyalinis. 3310

Hab. in truncis Ceylon et Kandy. — Verisimiliter spermogonium *Nectriæ* cujusdam.

8. **Sphæronæmella oxyspora** (Berk.) Sacc. *Sphæronæma oxysporum* Berk. Dec. of Fungi n. 136. — Peritheciis subulatis flavis apice nudis; sporulis ellipticis utrinque appendiculatis. 3311

Hab. in hymenio Polypori et Merulii tremellosi, Waynesville, Ohio (Lea) et Forestburgh (Peck) Americæ bor. — « An *Eleutheromyces*, ascis prætervisis? ».

9. **Sphæronæmella Helvellæ** Karst. Hedw. 1884, p. 18. — Peritheciis confertis, ovoideo-sphæroideis vel sphæroideis, flavescentibus, 120 μ. d. vel 150 ≃ 135, rostro teretiusculo, apice penicillato, hyalino-albido, 300-350 ≃ 20-35; globulo magno, rotundato ex albido fla- 3312

vido; sporulis ellipsoideis, plerumque 1- vel 2-guttulatis, muco obvolutis, hyalinis, 7–13 ≃ 4–6 μ. diam.

Hab. ad Helvellam infulam semiemortuam in Fennia.

ASCHERSONIA Mont. Syll. Crypt. n. 929 (Etym. a cl. F. M. Ascherson, Medico borusso, opellæ de fungis venenatis auctore). — Stroma carnosum, hemisphæricum, turbinatum v. pulvinatum, læte coloratum, primitus velo fugaci byssino concolori tectum. Perithecia (seu loculi) stromate subimmersa membranacea, tenuissima, erecta, fibroso-cellulosa porisque late apertis (tandem rimose confluentibus) pertusa. Basidia filiformia. Sporulæ fusiformes hyalinæ, continuæ subinde 3–4-guttulatæ spurieque septatæ. — Fungi phyllogeni, tropici, *Hypocreis* affines et paralleli, sed ascis carentes.

1. **Aschersonia tahitensis** Mont. Cent. VI. n. 11, p. 122, t. 6, f. 3, in Ann. Sc. Nat. 1848. — Stromate hemisphærico, truncato, obtuso luteo, 1–2 mill. diam.; peritheciis subquindenis erectis minutis, ⅓ mill. diam., poris per rimulas conjunctis; sporulis minutis, fusoideis utrinque acutissimis, 15 ≃ 2, 4-guttulatis, hyalinis; basidiis filiformibus, 20–25 μ. longis. 3313

Hab. in foliis cujusdam Cyrtandræ in Tahiti (J. Lépine).

2. **Aschersonia turbinata** Berk. Fungi St. Domingo n. 52. — Stromatibus turbinatis, 3–4-fasciculatis, sursum liberis excavatisque, deorsum connatis, extus granulosis; peritheciis disco stromatis immersis, oblongis, in ostiola elongata vix exstantia productis, subhyalinis; sporulis fusoideis continuis hyalinis, 9–10 μ. longis. 3314

Hab. in foliis, plerumque epiphylla, S. Domingo (Sallé). — Habitus fere *Corynes sarcoidis*.

3. **Aschersonia basicystis** B. et C. Cub. Fungi n. 558. — Stromate breviter elevato, 2 mill. diam., apice plano pallide cervino, e strato orbiculari oriundo, brevissime stipitato; stipite cellulifero. 3315

Hab. in foliis emortuis dejectis in Cuba. — Stromatis pars superior e cellulis radiantibus constat, quæ abeunt in floccos, ad cujus apicem loculi generantur.

4. **Aschersonia rufa** (B. et Br.) Sacc. *Myrosporium rufum* B. et Br. Ceyl. Fungi n. 793. — Placentæformis, rufa, nitida, collabens; sporulis subellipticis, 12–15 ≃ 10. 3316

Hab. in petiolis Palmarum, ut videtur, Peradeniya Ceylon. — Habitus omnino *Hypocreæ* collapsæ. Sec. Berk. ad *Myrosporium* Corda propius accedit, quod vero genus est Myxomyces, teste Frieso. Etiam, colore dempto, ad *Coccullariam* Corda nutat.

«Mihi vero e descriptione species ad *Aschersoniam* omnino referenda videtur».

5. **Aschersonia cubensis** B. et C. Cub. Fungi n. 557. — Stromate 3317
pallido, convexo, obtuso, carneo, pruinoso, apice leviter umbilicato, quandoque basi dilatata; sporulis fusiformibus acuminatis, 10 μ. long.

Hab. in pag. inf. frondis Pteridis in Cuba, River Amazon, Brasil.

6. **Aschersonia Placenta** Berk. F. of Ceyl. n. 799. — Flava, orbicu- 3318
laris, centro rugosa, margine membranaceo candido; sporulis breviter fusiformibus, 5 μ. longis.

Hab. in foliis Loranthi et Memecyli capitellati in Ceylon et in insula Marquesas (E. Iardin). — Tota superficialis, cocci ad instar.

7. **Aschersonia mellea** B. et Br. F. of Ceyl. n. 798. — Pulvinata, 3319
mellea, glabra, 2-3 mill. diam.; loculis demersis; sporulis subellipticis nucleatis.

Hab. in cortice emortuo in insula Ceylon australiore.

8. **Aschersonia duplex** Berk. F. New Zeal. p. 194. — Flava, rubi- 3320
formis vel simplex cellulis majoribus minoribusque; sporulis oblongis angustis, 7-8 μ. longis, hyalinis, continuis.

Hab. in foliis Asteliæ in Nova Zelandia (Colenso).

9. **Aschersonia oxyspora** Berk. Decad. of Fungi n. 463 et 615bis in 3321
Hook. Journ. — Stromate basi floccoso-expanso, leviter cylindrico ceraceo, depresso, centro 2 mill. diam., armeniaci vel carnei coloris; loculis paucis, irregularibus, magnis, subinde convolutis; sporulis oblongis, 10-15 μ. longis utrinque appendiculatis.

Hab. in foliis Myrsinearum etc. Khasia Indiæ et S. Carlos Brasiliæ.

DICHLÆNA Mont. et Dur. Fl. Alg. p. 405 (Etym. *dis* bis, et *chlæna* toga). — Mycelium floccoso-radiatum, floccis raris. Perithecia vitellina e tunica duplice composita, utraque membranaceo-cellulosa; exterior tandem prope basin circumscissa cupulam relinquens, interior vero tenuissima. Sporulæ simplices, hyalinæ, myriadeæ. Flocci vel basidia nulla observata.

1. **Dichlæna Lentisci** Mont. et Dur. Fl. Alg. p. 405, t. 22bis, f. 2. — 3322
Hypophylla, e flavo vitellina; perithecio exteriori subgloboso minute celluloso, basi brevissime radiatimque floccoso, tandem circumscisso, interiori tenuissimo venis laxe anastomosantibus per-

curso; sporulis numerosissimis, minutissimis globosis pellucidis, 3-3,5 μ. diam.; basidiis vel floccis nullis vel obsoletis.

Hab. in foliis Lentisci per totam Algeriam frequens (Durieu).

PSEUDODIPLODIA Karst. Symb. Myc. Fenn. XV. p. 156, ut subgenus. (Etym. *Pseudo* et *Diplodia*, h. e. *Diplodia* spuria). — Perithecia subsuperficialia, globulosa, ceraceo-carnosa, madore fuliginea, mox ore lato aperta. Sporulæ ellipsoideæ 1-septatæ, dilute olivaceæ.

1. **Pseudodiplodia ligniaria** Karst. l. c. — Peritheciis laxe gregariis 3323
v. sparsis, emergenti-subsuperficialibus, applanatis, orbiculatis v. ellipsoideis, udis fuligineis (rubiginosis?), siccis nigrescentibus, primitus clausis, mox ore lato orbiculari v. oblongato apertis, intus (disco) pallescentibus, 0,2 mill. lat.; sporulis ellipsoideis utrinque obtusis, 1-septatis non v. vix constrictis, 10-13 ≃ 6-8, 2-guttatis, dilute olivaceis.

Hab. in ligno vetusto prope Helsingfors Fenniæ.

STAGONOPSIS Sacc. (Etym. *Stagon*, pro *Stagonospora*, et *opsis* facies, h. e. *Stagonosporæ* analogum genus). — Perithecia erumpentia vel subsuperficialia, ceraceo-mollia, læticoloria (carnea etc.) globulosa. Sporulæ oblongæ vel subfusoideæ 2-pluriseptatæ, hyalinæ. — Plures species adsunt ab auctoribus ut formæ metageneticæ *Nectriæ* vel *Calonectriæ* obiter descriptæ.

1. **Stagonopsis pallida** (B. et C.) Sacc. *Hendersonia pallida* B. et C. 3324
North Amer. Fungi n. 429bis. — Peritheciis sparsis, nudis, pallide carneis; sporulis arcuatis hyalinis, 7-8-septatis, 8-9-nucleatis.

Hab. in Corno, socio *Helminthosporio* quodam, Alabama in Amer. bor. — Probabiliter pycnidium *Calonectriæ* cujusdam.

CHIASTOSPORA Riess in Fres. Beitr. Myk. p. 43 (Etym. *chiastos* decussatus, et *spora*). — Perithecia sublentiformia, mollia, pallida, ostiolo rotundo dehiscentia. Sporulæ decussatæ, 4-radiatæ, hyalinæ, septatæ radiis inæqualibus. Basidia monospora, septata, hyalina.

1. **Chiastospora parasitica** Riess in Fres. l. c. t. V. f. 18-21. — 3325
Peritheciis lentiformibus, pallidis, flavidis vel dilute fuscis $^1/_{10}$-$^1/_5$ mill. diam.; basidiis cylindrico-clavulatis septatis, fasciculatis hyalinis; sporulis 4-radiatis (sæpius ad instar X), hyalinis, 22-25 μ. longis, 4-6-septatis, radiis inæqualibus acutiusculis.

Hab. ad ostiolum Massariæ pyxidatæ prope Cassel in Germania.

POLYSTIGMINA Sacc. (Etym. a *Polystigma*, cujus analogum et metageneticum genus). — Stroma phyllogenum, subdiscoideum, convexo-planum, carnosulum, amœne rubescens, intus pluriloculare. Sporulæ filiformes subuncinatæ, continuæ, hyalinæ.

1. **Polystigmina rubra** (Desm.) Sacc. *Septoria rubra* Desm. 10 Not. p. 8, *Libertella rubra* (Desm.) Bon. — Hypophylla; stromate suborbiculari, carnoso, planiusculo vel convexo rubro, demum rufofusco; peritheciis minutissimis, numerosis, saturatioribus, immersis; ostiolis punctiformibus; cirris albidis; sporulis linearibus, rectis curvatis vel subuncinatis, 6–9-nucleolatis, 25–30 ≃ 1–1,5. 3326

Hab. in foliis Pruni domesticæ et spinosæ in Gallia, Germania, Italia, Austria. — ***amygdalina** Desm. l. c.: maculis brunneo-nigricantibus, in ambitu aurantiis. In foliis vivis Amygdali in Gallia et Italia. — Spermogonium *Polystigmatis rubri*. — *Libertella fulva* Thüm. M. U. n. 1195 est verum *Polystigma ochraceum* seu *fulvum*, optime ascophorum: ascis 70–80 ≃ 13–15; sporulis 14–15 ≃ 6.

HYSTEROMYXA Sacc. et Ellis Mich. II. p. 574 (Etym. *Hysterium* et *myxa*, ob affinitatem cum Myxomycetibus). — Perithecia (genuina?) superficialia, applanata, ambitu oblonga vel subangulosa, læte colorata, rimose vel substellatim dehiscentia; contextu tenui, irregulariter celluloso (?), cuticula anhista diaphana obducto. Sporulæ (conidia?) copiosæ, globulosæ, læte coloratæ; basidia nulla (vel saltem non visa). — Genus adhuc dubium et ulterius vivum inquirendum, hinc ad *Myxomycetes*, illinc ad *Sphæropsideas subcupulatas* nutans.

1. **Hysteromyxa effugiens** Sacc. et Ellis Mich. II. p. 574. — Peritheciis exiguis, applanatis, superficialibus, rubellis, $^1/_6$ mill. diam.; sporulis (conidiis?) globosis, levibus, 8–10 μ. diam., 3–4-guttulatis e hyalino roseis; basidiis nullis visis. 3327

Hab. ad folia emortua Cupressi thyoidis, Newfield N. J. Amer. bor. (Ellis). — Contextus perithecii videtur formatus e cuticula anhista cui cellulæ subrotundæ variæ rufulæ laxe adhærent.

PATELLINA Speg. Fung. Arg. III. n. 164 (Etym. a *patella* ob formam perithecii). — Perithecia patellari-cupulata, glabra, carnosa, sessilia, speciosa. Sporulæ globosæ vel ellipticæ, continuæ, hyalinæ, in basidiis cylindricis acrogenæ.

1. **Patellina italichroma** Speg. Fung. Arg. Pug. III. n. 164. — Peritheciis orbiculari-applanatis, sæpe confluendo difformibus, carnoso-ceraceis, hypothecio crassiusculo, obscure viridi, margine candido, contextu parenchymatico, olivascente; epithecio amœne aurantiaco vel roseo-carneo; sporulis ellipticis vel ovoideis, biguttulatis, continuis, hyalinis, 3–4 ≃ 1,5, in basidiis filiformibus prælongis, 80–120 ≃ 1, acrogenis. 3328

Hab. in palo vetusto subputrido Meliæ Azedarach prope el Retiro, Buenos Aires Argentinæ. — Species perpulchra! Jove pluvio, epithecium defluit ac apothecium album cavum manet.

CYPHINA Sacc. (Etym. *cyphos* vas concavum), *Excipula* Peck e. p. — Perithecia excipuliformia, minuta, læticoloria (flava vel aurantiaca) pilis mollibus albidis vestita. Sporulæ oblongæ, continuæ, hyalinæ. — «Forte *Volutellæ* analoga».

1. **Cyphina lanuginosa** (Peck) Sacc. *Excipula lanuginosa* Peck Rep. on the St. Mus. N. York, cum icone. — Peritheciis excipuliformibus minutis, flavidis vel aurantiacis, copiosis, plerumque pilis longis, mollibus, sordide albis; sporulis oblongis, hyalinis, 7–8,5 μ. longis. 3329

Hab. in caule Meliloti, Bethlehem Amer. bor. — Peritheciis læte coloratis et pilis pallidis ab *Excipulis* mox dignoscitur.

REPERTORIUM

SPHÆROPSIDEARUM NECTRIOIDEARUM

SECUNDUM MATRICES

Obs. A. indicat *Aschersonia*. — Ch. *Chiastospora*. — Co. *Collacystis*. — Cy. *Cyphina*. — D. *Dichlœna*. — H. *Hysteromyxa*. — L. *Libertiella*. — P. *Pseudodiplodia*. — Pa. *Patellina*. — Po. *Polystigmina*. — R. *Roumeguèriella*. — S. *Sphæronœmella*. — St. *Stagonopsis*. — Z. *Zythia*.

N. 3291 — 3329 citantur 291 — 329

Amygdalus — Po. 326.
Astelia — A. 320.

Beta — Z. 298.
Brassica — Z. 296.

Carpinus — S. 307.
Clethra — S. 308.
Cornus — Z. 291. — H. 324.
Cupressus — H. 327.
Cyrtandra — A. 313.

Hedera — S. 304.
Helvella — S. 312.

Larix — S. 306.
Lentiscus — D. 322.
Loranthus — A. 318.

Magnolia — S. 308.
Massaria — Ch. 325.

Melia — Pa. 328.
Melilotus — Cy. 320.
Memecylus — A. 318.
Mercurialis — Z. 295.
Merulius — S. 311.
Myrsineaceæ — A. 321.
Myrtaceæ — Z. 292.

Palmaceæ — A. 316.
Peltigera — L. 303.
Pinus — S. 305. 308. 309.
Polyporus — Z. 300. — S. 311.
Prunus — Po. 326.
Pteris — A. 317.
Punica — Z. 293.

Quercus — S. 305.

Rhinanthus — Z. 299.

Salix — S. 307.

Fam. 3. **Leptostromaceæ** Sacc.

Dimidiato-scutatæ Sacc. Mich. II. p. 8.

Perithecia plus v. minus distincte dimidiata, scutiformia, astoma v. ostiolata v. hysterioideo-rimosa, membranacea v. carbonacea, atra, erumpentia v. superficialia.

Clavis analytica generum.

Sect. 1. **Hyalosporæ** Sacc.

Sporulæ globosæ v. ellipsoideæ v. oblongæ, continuæ, hyalinæ.

I. Perithecii contextus distincte parenchymaticus.

A) Perithecia astoma v. varie hiantia, sed non longitudinaliter rimosa.

Leptothyrium. Perithecia depresso-clypeata, plerumque facile secedentia; basidia obsoleta.

Piggotia. Perithecia irregularia, depressa, non secedentia, sæpe stellatim digesta; basidia columnaria.

Melasmia. Perithecia irregularia, depressa, stromate phyllogeno atro innata; basidia obsoleta.

Actinothecium. Perithecia clypeata et stellatim rimosa, sæpe vero in radios hysteriiformes, lanceolatos, sulcatos divisa; basidia obsoleta (Transit ad *B*).

B) Perithecia distincte v. obsolete longitudinaliter rimosa, subhysterioidea.

Leptostroma. Perithecia lanceolata v. elongata, sæpe demum secedentia, subcarbonacea. (Plurium specierum fructificatio latet).

Labrella. Perithecia subcircularia, non secedentia, sæpe spuria.

II. Perithecii contextus subanhistus, punctulatus (non vere cellulosus).

Sacidium. Perithecia clypeata; sporulæ globosæ, ellipsoideæ v. oblongæ (Plures species, ignoto contextu, forte ad *Leptothyrium* ducendæ).

Sect. 2. **Phæosporæ** Sacc.

Sporulæ globulosæ v. ellipsoideæ, continuæ, fuscæ.

Pirostoma. Perithecia scutiformia, centro umbilicato-pertusa.

Sect. 3. **Phragmosporæ** Sacc.

Sporulæ oblongæ, hyalinæ, 2-pluriseptatæ v. 4-loculares, loculis subcruciatim positis.

Discosia. Sporulæ fusoideæ, 2-pluriseptatæ, utrinque 1-ciliatæ.

Entomosporium. Sporulæ cruciato-tetrameræ, loculis omnibus 1-ciliatis.

Sect. 4. Scolecosporæ Sacc.

Sporulæ filiformes v. bacillares, continuæ v. septatæ, hyalinæ.

Actinothyrium. Perithecia clypeata subastoma margine eximie radiatim fimbriata.
Melophia. Perithecia clypeata subastoma, corrugata, margine non fimbriata.
Leptostromella. Perithecia elongata, longitrorsum rimosa, hysterioidea.

LEPTOTHYRIUM Kunze et Schm. Myk. Heft. II. p. 79, em. Sacc. Mich. II. p. 114, n. 955 (Etym. *leptos* tenuis, et *thyreos* scutum). — Perithecia dimidiata, scutiformia, membranaceo-carbonacea, atra, astoma v. varie hiantia, dein circumscisso-soluta, contextu plerumque distincte celluloso-radiato, subinde tamen spurio et ex epidermide mutata et atrata formato. Sporulæ ovoideo-oblongæ v. fusoideæ, continuæ, hyalinæ.

I. *In plantis dicotyledoneis arboreis.*

A) Foliicolæ.

1. **Leptothyrium Periclymeni** (Desm.) Sacc. *Labrella Periclymeni* Desm. 16 Not. p. 358 (1849) *Leptothyrium pictum* B. et Br. Ann. N. H. n. 1450 (1875), Sacc. Mich. I. p. 94 et F. ital. t. 93. *Depazea Xylostei* Pass. Hedw. 1877, pag. 117. *Phyllosticta Vossii* Thüm. in Voss Mat. p. 48 cum icone; an *Phyllosticta Loniceræ* West.? — Maculis subolivaceis dein arescendo expallentibus, subrotundis, subinde fusco-marginatis; peritheciis sparsis epiphyllis, innato-erumpentibus, scutiformibus, atris, radiatim textis, dein radiatim dehiscentibus; sporulis oblongis rostrato-recurvis, 25 ≃ 8–10, guttulatis, hyalinis. 3330

   Hab. in foliis Loniceræ Xylostei et L. Caprifolii in Britannia, Italia, Lusitania, Gallia et Austria.

2. **Leptothyrium Coryli** Lib. in Cooke Grevill. — Maculis magnis, orbiculatis, fuscis; peritheciis hypogenis, sparsis, minimis, planiusculis, rugosis, nigris, basi circumscissis; pulpa grisea; sporulis ovatis, binucleatis, pellucidis. 3331

   Hab. in foliis Coryli Avellanæ in Arduennis.

3. **Leptothyrium corylinum** Fuck. Symb. p. 120, Sacc. Syll. I. p. 419. — Peritheciis scutiformibus in macula exarida obscuriori sparsis, 3332

demum applanatis plicatisque, atro-fuscis, nitidis, minutissimis; sporulis vermicularibus curvatis, linearibus, multiguttulatis, hyalinis, 18 ≃ 2.

Hab. in pag. inf. foliorum Coryli Avellanæ in Germania, Lusitania. — Spermogonium *Gnomoniellæ Coryli.*

4. **Leptothyrium alneum** (Lév.) Sacc. Mich. I. p. 202. *Melasmia alnea* Lév. Ann. Sc. nat. 1848, p. 252. — Peritheciis scutiformibus convexo-planis, atris, dein radiatim subplicatis; sporulis botuliformibus, curvulis, 8-9 ≃ $1^1/_2$-2, hyalinis. 3333

Hab. in foliis languidis Alni glutinosæ et A. serrulatæ in Gallia, Italia, Britannia et America boreali. — An status provectior *Glœosporii cylindrospermi* (Bonorden)? — Aptius omnimode *Leptothyrio* quam *Melasmiæ* adscribenda species.

5. **Leptothyrium Pini** (Corda) Sacc., *Sacidium Pini* (Corda) Fr. Summa p. 420. *Coniothyrium Pini* Corda Ic. fung. IV. p. 38, fig. 105. — Hypophyllum, minutissimum; perithecio verruciformi fusco celluloso, dein circumscisso v. lobato; sporulis magnis ovato-oblongis, hyalinis, episporio tenui, 16-18 μ. longis. 3334

Hab. in foliis Pinorum et Abietum in Bohemia, Germania, Austria, Italia boreali, America sept. — Contextus cellulosus manifestissimus.

6. **Leptothyrium Betulæ** Fuck. Symb. myc. pag. 383. — Peritheciis (spuriis?) gregariis, punctiformibus, scutiformibus, orbicularibus, atro-nitidis; sporulis minutissimis, cylindraceis, curvatis, circ. 4 ≃ 1, hyalinis, in sterigmatum simplicium apicibus. 3335

Hab. in foliis putrescentibus Betulæ albæ in Mittelheimer Wald Rhenogoviæ.

7. **Leptothyrium? botryoides** Sacc. Mich. II. p. 168. — Peritheciis convexo-scutiformibus, atro-nitentibus, amphigenis, $^1/_6$-$^1/_8$ mill. d., dein botryoso-corrugatis, contextu minute parenchymatico fuligineo; sporulis cylindraceis, utrinque obtusiusculis, 12-15 ≃ 2, sæpissime (normaliter?) catenulatis, nubilosis, hyalinis, basidiis conformibus suffultis. 3336

Hab. in foliis aridis Fagi silvaticæ, socio *Coccomycete coronato*, cujus verisimiliter spermogonium, in M. Sol (Possagno), Ital. bor. (A. Rossi). — A genere recedit et ulterius observandum.

8. **Leptothyrium Populi** Fuck. Symb. myc. p. 383, t. II. fig. 29. — Peritheciis (spuriis?) maximis clypeatis, atro-nitentibus, amphigenis; sporulis cylindraceo-fusoideis rectis curvulisve, utrinque acutiusculis, hyalinis, 10-12 ≃ 1,5-2, utrinque obtusis. 3337

Hab. in foliis Populi nigræ et pyramidalis pr. Hattenheim Rhenogoviæ et Padova Italiæ borealis.

9. **Leptothyrium maculicolum** Winter. Cont. Myc. Lus. n. 794. — Peri- 3338
theciis in macula magna, exarida, grisea, angustissime fusco-cincta, angulata, 8-20 mill. lata, sparsis, epiphyllis, disciformibus, atris, subcutaneis, circa 250 μ. diam.; sporulis ovatis vel piriformibus, antice late rotundatis, continuis, pallidissime coloratis, 15-16 ≃ 8-9.

Hab. in foliis vivis Quercus Suberis, Lombaria pr. Coimbra Lusitaniæ.

10. **Leptothyrium dryinum** Sacc. Mich. I. p. 202. — Peritheciis pun- 3339
ctiformibus, 50-80 μ. diam., superficialibus, scutiformi-applanatis, atris e cellulis fibrosis radiantibus, circumcirca fimbriatis compositis, medio dehiscentibus; sporulis ratione perithecii majusculis, ovoideis, 10-12 ≃ 7, minute pluriguttulatis, fuscidulis.

Hab. in foliis nondum emortuis Quercus pedunculatæ in silva Montello Italiæ bor. nudo oculo vix percipiendum. — Ob formam perithecii ad *Actinothyrium* vergit, sed fabrica sporularum maxime differt.

11. **Leptothyrium quercinum** (Lasch) Sacc. Mich. II. p. 113. — *Le-* 3340
ptostroma quercinum Lasch in Kl. H. M. n. 1075. — Peritheciis dimidiatis, subcircularibus v. angulosis, nitidis, planis, minutis, obsolete radiato-contextis; sporulis bacillari-navicularibus, 9 ≃ 1,5, hyalinis.

Hab. in foliis dejectis Quercus Roboris et Suberis in Germania, Italia, Gallia, sæpe socio st. ascoph. *Coccomycete dentato* (Kunze et Schm.) Sacc.

12. **Leptothyrium Castaneæ** (Spr.) Sacc. Mich. p. 631. *Leptostroma* 3341
Castaneæ Spr. Syst. Veg. IV. pag. 538. *Xyloma geographicum* Pers., *Sphæria castaneicola* DC. p. p. — Peritheciis subcircularibus v. angulosis, planis, nigris, nitidis, minutis: sporulis cylindraceis, 5-6 ≃ 0,7, hyalinis.

Hab. in foliis dejectis Castaneæ vescæ in Germania, Italia, Lusitania. — Spermogonium *Coccomycetis dentati* (Kunze et Schm.) Sacc. f. *Castaneæ*.

13. **Leptothyrium Rosarum** Cooke Grev. XII. p. 25. — Hypophyllum; 3342
peritheciis discoideis, applanatis, atris, hinc illinc aggregatis; sporulis ovato-ellipticis, hyalinis, 3,5 ≃ 2.

Hab. in foliis Rosarum in Carolina inf. (Ravenel).

14. **Leptothyrium cinctum** Cooke Grev. XII. p. 25. — Hypophyllum; 3343

peritheciis subangulatis, minutis, applanatis, fuscis, circumcirca annulo pallescente cinctis; sporulis ovalibus, hyalinis, 5 ≃ 2,5.

Hab. in foliis Cerasi serotinæ in Carolina infer. (Ravenel).

15. **Leptothyrium Libertianum** (Thüm.) Sacc. Mich. II. p. 631, *Sacidium Libertianum* Thüm. Hedw. 1880, p. 190. — Peritheciis disciformibus atris, dein secedentibus, minutis, contextu parenchymatico distincto; sporulis ellipsoideis, 7-8 ≃ 6½-7, hyalinis. 3344

Hab. in foliis languidis Pruni Padi in Arduennis (Libert). — Quum contextus adsit, est mihi potius *Leptothyrium* quam *Sacidium*.

16. **Leptothyrium Rubi** (Duby) Sacc. Mich. II. p. 351. *Sphæria* (Dothidea) *Rubi* Duby Bot. Gall. II. p. 712. — Peritheciis clypeatis, radiato-contextis, areolis foliorum dealbatis insidentibus, 150 μ. diam.; sporulis teretiusculis, 4-4½ ≃ ¾, hyalinis, basidiis bacillaribus, interdum ramulosis (?), 20 ≃ 1-2 suffultis. 3345

Hab. in utraque pagina foliorum languentium Rubi in Gallia et Algeria. — Species *Leptothyrio clypeosphærioide* Sacc. multo minor.

17. **Leptothyrium myrtinum** (Dur. et Mont.) Speg. F. Arg. Pug. IV. n. 305. *Pilidium myrtinum* Dur. et Mont. Fl. Alg. I. p. 598, t. 26, f. 8. — Maculis amphigenis, magnitudine variis, 2-4 mill. diam., indeterminatis, pallescentibus; peritheciis paucis, atris, centralibus, parvulis, 120-150 μ. diam., primo epidermide integra tectis, dein ea lacerata, cinctis; sporulis cylindraceo-allantoideis, longiusculis, utrinque inæquilateraliter rotundato-acutatis, 20 ≃ 2, continuis, hyalinis. 3346

Hab. ad folia dejecta putrescentia Myrtacearum in Algeria (Durieu), in Chili (Gay) et prope Apiahy Brasiliæ meridionalis (J. Puiggari).

18. **Leptothyrium ilicinum** Sacc. — Maculis nullis; peritheciis amphigenis sed sæpius hypophyllis, planiuscule scutatis, subcircularibus, ⅕-⅓ mill. diam., minute celluloso-contextis, varie dehiscentibus, ambitu inæqualibus; sporulis rectis bacillaribus utrinque obtusis, 20-25 ≃ 3, e hyalino dilutissime olivaceis, in basi stromatica sessilibus. 3347

Hab. in foliis emortuis et dejectis Quercus Ilicis in collibus Euganeis Ital. bor.

19. **Leptothyrium petiolorum** (C. et Ell.) Sacc. *Leptostroma petiolorum* C. et E. New Jersey Fungi in Grevillea. — Sparsum, orbi- 3348

cular scutellatum, nigrum; sporulis minimis, linearibus, rectis, hyalinis, 5 μ. longis.

Hab. in petiolis Ailanthi, New Jersey.

20. **Leptothyrium discoideum** (Cooke) Sacc. *Leptostroma discoideum* Cooke Grev. 1880, p. 11. — Epiphyllum, punctiforme, sparsum, convexum, atrum; sporulis minutis, linearibus, hyalinis, rectis, 6 μ. longis. 3349

Hab. in foliis Coffeæ arabicæ, Venezuela (Doct. Ernst). — Habitus fere *Microthyrii*.

21. **Leptothyrium sibiricum** Thüm. Pilzfl. Sibir. n. 801. — Perithe- 3350
ciis amphigenis sed plerumque hypophyllis, sparsis, sine ordine dispositis, applanatis, orbiculatis, emersis, levibus, submagnis, nigris; sporulis numerosissimis, late spathulatis vel interdum botuliformibus, utrinque angustato-truncatis, rectis, raro subarcuatis, episporio crassissimo levi, subachrois vel plerumque dilute flavescentibus, 20–22 ≃ 7–8.

Hab. in foliis vivis Tragopyri lanceolati *(Polygoni frutescentis* Lin.) pr. Minussinsk Sibiriæ asiaticæ.

22. **Leptothyrium acerinum** (Kunze) Corda Icon. II. p. 25, t. XII. f. 3351
92. Fuck. Symb. t. II. f. 30. *Pilidium acerinum* Kunze Myk. Heft. II. p. 92, t. II. f. 5. — Peritheciis (spuriis) hypophyllis applanatis, minutis, nigris, demum per 3–5 dentes laciniatim dehiscentibus, intus albidis; sporulis cylindraceo-fusoideis, falcatis, 10–14 ≃ 1½–2, hyalinis, initio sterigmatibus filiformibus, 10–12 ≃ 1 suffultis.

Hab. in foliis Aceris campestris et Aceris platanoidis in Germania, Italia, Gallia, Austria, Britannia.

23. **Leptothyrium Coriariæ** (Berk.) Sacc. *Pilidium Coriariæ* Berk. 3352
Fl. New Zeal. p. 195. — Peritheciis subrigidis demum centro perforatis collabascentibus; sporulis curvulis linearibus utrinque subattenuatis, 16–17 μ. diam.

Hab. in foliis emortuis Coriariæ sarmentosæ in Nova Zelandia (Colenso).

24. **Leptothyrium? foraminulatum** Sacc. et Ell. Mich. II. p. 375. — 3353
Peritheciis gregariis superficialibus, punctiformibas, scutato-planis, astomis, nigris; contextu parenchymatico radiato, cellulis sæpe cuboideo-oblongis fuligineis, excentrice minute hyalino-uni-punctatis (simulate foraminulatis); sporulis ... non visis.

Hab. in foliorum pagina superiore Ilicis opacæ, Newfield

Amer. bor. (Ellis). — Etsi fructificatio ignota, species ob cellulas perithecii punctulata distincta videtur.

B) Ramicolæ

25. **Leptothyrium clypeosphærioides** Sacc. Mich. II. p. 114. — Peri- 3354
theciis gregariis, superficialibus, (an epidermide tenuissima velatis?) scutato-planis, 250 μ. diam., atris, nitidis; contextu parenchymatico, subradiato, ad centrum tenuiore; sporulis cylindraceis, rectiusculis, utrinque obtusis, 5-6 ≃ 1, hyalinis, basidiis 7-10 ≃ 1 ¼, e strato fuscidulo oriundis, suffultis.

Hab. in sarmentis Rubi fruticosi pr. Rouen Galliæ (Malbranche).

26. **Leptothyrium Celastri** B. et C. North Am. Fungi n. 392. — Su- 3355
perficiale, orbiculare, atrum, gregarium; sporulis cylindricis, 25 μ. longis.

Hab. in ramulis Celastri, New England Amer. bor. (Murray).

27. **Leptothyrium Cytisi** Fuck. Symb. myc. p. 383, t. I. f. 31. — Pe- 3356
ritheciis spuriis oblongis orbicularibusque, usque ad lineam longis, convexis, demum planis, rugulosis, nitidis, atro-fuscis; sporulis continuis, cylindraceis, curvatis, 26 ≃ 2, hyalinis.

Hab. in ramis siccis Cytisi sagittalis pr. Eberbach Rhenogoviæ et in Arduennis. — «Cellulæ perithecii tortuosæ, fuligineæ; sporulæ bacillari-curvulæ 16-25 ≃ 1½-2, hyalinæ, basidiis teretibus, 6-8 ≃ 2, hyalinis suffultæ.»

28. **Leptothyrium Passerinii** Thüm. Weinst. p. 152. — Peritheciis 3357
magnis, gregariis, late elongatis, planis, seriatis, subepidermicis vel epidermidem perforantibus, glauco-nigris, sublevibus; sporulis perpaucis, tenuissimis, minutissimis, ovoideis, utrinque rotundatis, simplicibus, achrois, 1,5-2 ≃ 1.

Hab. ad sarmenta subputrida Vitis viniferæ, Parma in Italia bor. (Passerini).

29. **Leptothyrium perpusillum** Pass. et Thüm. Weinst. p. 152. — Pe- 3358
ritheciis minutissimis, gregariis, subprominulis, subconicis, epidermidem perforantibus, liberis, atris; sporulis cylindraceo-ellipticis vel subclavulato-cylindricis, rectis, vertice obtuse rotundatis, subdilatatis, basi leniter angustatis, uniseptatis (genuine?), medio non constrictis, numerosissimis, hyalinis, 6-8 ≃ 3.

Hab. ad sarmenta arida Vitis viniferæ, Parma in Italia boreali (Passerini).

C) Fructicolæ.

30. **Leptothyrium Pomi** (Mont. et Fr.) Sacc. Mich. II. p. 113. *Labrella Pomi* M. et Fries Not. etc., in Ann. 2, I. p. 347 et Mont. Syll. n. 991. — Macula nulla; peritheciis dimidiatis subcircularibus v. ellipticis minimis nitidissimis. contextu subradiato, fuligineo, nucleo albo-celluloso..... asporo viso. 3359

Hab. in epicarpio fructuum Piri Mali in Gallia et in Rhode Island.

31. **Leptothyrium carpophilum** Pass. Thüm. Myc. univ. n. 1081. — Maculis subdiscoideis v. confluentibus, fusco-atris; peritheciis sparsis, atris, conico-depressis, basi circumscissa secedentibus; sporulis elongato-fusiformibus, curvis vel flexuosis, intus nucleolatis, integris vel obscure septatis, hyalinis. 3360

Hab. in fructibus Piri communis diu servatis, Parma Ital. bor. (Passerini).

32. **Leptothyrium conigenum** Peyl Lotos 1857, p. 66, n. 10 fig. 10 (non vidi). 3361

Hab. in strobilis Coniferarum in Bohemia meridionali.

33. **Leptothyrium Leguminum** (Cooke) Sacc. *Leptostroma Leguminum* Cooke in Grevillea. — Punctiforme, sparsum, sub epidermide nidulans, brunneum, superne porosum; sporulis ovoideis, hyalinis, 5 : 3. 3362

Hab. in leguminibus Clitoreæ, Madras Indiæ.

II. *In plantis dicotyledoneis herbaceis.*

A) Foliicolæ.

34. **Leptothyrium asterinum** B. et Br. Ann. N. H. n. 1901. t. III. f. 1. — Maculiforme, incrassatum, rubro-marginatum; sporulis oblongis, curvis binucleatis, 25-35 μ. longis; basidiis bacillaribus. 3363

Hab. in foliis Asteris Trifolii, Fleetwood Britanniæ (A. Bloxam).

35. **Leptothyrium punctiforme** B. et C. North Am. Fungi n. 394, Peck Rep. 23 on the St. Mus. — Sparsum, minutum, hypophyllum superficiale absque macula; sporulis oblongis, curvulis, 20 μ. longis. 3364

Hab. in foliis Erigerontis, Massachussets Amer. bor. — Perithecia punctiformia.

36. **Leptothyrium Brassicæ** Pr. Fung. Hoyersw. n. 19. — Erumpens, hemisphærico-rugosum; peritheciis carbonaceis, atris, intus dilute 3365

fuscis, secedentibus; sporulis elongatis, utrinque rotundatis, albis, diaphanis, continuis.

Hab. in foliis Brassicæ oleraceæ, Hoyerswerda.

37. **Leptothyrium glomerulatum** Sp. Fungi Arg. Pug. II. n. 129. — 3366
Peritheciis in acervulos parvulos 1-3 mill. diam. coacervatis, matrici stromatice nigrificata innato-prominulis, atris, minutis, 100-120 μ. d. membranaceis, contextu parenchymatico-subindistincto, atro-fuligineo; sporulis ellipticis vel ovoideis, granuloso-farctis, hyalinis, 12 ≃ 8.

Hab. ad nervos petiolosque Ipomææ gossypoidis in Corrientes Argentinæ (Berg).

38. **Leptothyrium Lychnidis** B. et C. North Am. F. n. 393. — Maculis 3367
pallidis; peritheciis punctiformibus; sporulis oblongis, utrinque irregularibus (*hollowed out*), 10 μ. long.

Hab. in foliis Lychnidis Floris-cuculi, Alabama Amer. bor. (Peters).

39. **Leptothyrium Passifloræ** B. et C. Cub. Fungi n. 553. — Macu- 3368
lis pallidis; peritheciis parcis irregularibus subpunctiformibus; sporulis oblongis utrinque obtusis hyalinis, 15 ≃ 5.

Hab. in pag. super. pilosa foliorum Passifloræ cujusdam trilobæ in insula Cuba. — Pili in areis expallentibus fere evanescunt.

40. **Leptothyrium macrothecium** Fuck. Symb. mycol. p. 383, tab. II. 3369
fig. 28. — Peritheciis (spuriis?) sparsis dimidiatis, pro genere majusculis, astomis, aterrimis: sporulis cylindraceo-fusoideis, 7-8 ≃ 1½-2, curvatis, hyalinis.

Hab. in foliis Potentillæ, Tormentillæ, Quercus, Rosæ, Rubi in Germania et Italia.

B) Caulicolæ.

41. **Leptothyrium vulgare** (Fr.) Sacc. Mich. II. p. 113. *Leptostroma* 3370
vulgare Fr. Symb. Myc. II. p. 599. — Peritheciis gregariis subcircularibus, planis, nitidis, 300-400 μ. diam., facile secedentibus, contextu parenchymatico obsolete radiato; sporulis botuliformibus, utrinque obtusiusculis, curvulis, 7 ≃ 1,5-2, hyalinis.

Hab. in caulibus emortuis Aconiti, Actææ, Senecionis, Lunariæ, Cimicifugæ, Teucrii etc. in Suecia, Gallia, Italia, Germania, Lusitania, Sibiria. — β. **Angelicæ** Karst. Symb. myc. Fenn. XIII. p. 13: sporulis elongatis utrinque obtusiusculis, rectis

v. leviter curvis, 5–6 ≃ 1–1,5. In caule Angelicæ in insula maris glacialis Kildin dicta.

42. **Leptothyrium Scorodoniæ** (Lib.) Sacc. *Leptostroma Scorodoniæ* Lib. in Herb. et Cooke in Grev. — Subrotundum, inæquale subconfluens, tenue, leve, nigrum, totum secedens, macula nigra; sporulis minutissimis, hyalinis. 3371

Hab. in caule Teucrii Scorodoniæ in Arduennis. — Sec. Speg. est var. *Lept. vulgaris.*

43. **Leptothyrium alpestre** Sacc. Mich. II. p. 114. — Peritheciis plano-scutatis, superficialibus, 200 μ. diam., nitidis, astomis, contextu eximie radiato, margine non fimbriato; sporulis botuliformibus, parum curvis, utrinque subrotundatis, 8 ≃ 1½, hyalinis. 3372

Hab. in caule Sonchi alpini in Vogesis (Mougeot, una cum n. 108 Roum. F. Gall.).

44. **Leptothyrium fœdans** (Ces.) Sacc. *Sacidium fœdans* Ces. in Kl. Herb. Myc. II. n. 61. — Peritheciis minutis disciformibus, dense gregariis maculasque effusas formantibus; sporulis exiguis allantoideis, 4 ≃ 0,7, hyalinis. 3373

Hab. in caule Salviæ glutinosæ, Treviso et Vercelli in Italia boreali.

45. **Leptothyrium Lunariæ** Kunze Myk. Heft. II. p. 79. Sacc. Syll. II. p. 666. — Peritheciis minutis disciformibus, nigris, nitidis, centro umbonatis, radiato-contextis, pertusis, primo sparsis, dein confluentibus; sporulis anguste fusoideis, hyalinis, curvulis, 10–12 ≃ 2. 3374

Hab. in caulibus et siliquis Lunariæ redivivæ in Germania et Austria. — Spermogonium *Microthyrii Lunariæ.*

46. **Leptothyrium Medicaginis** Pass. in Roum. Rev. Mycol. — Peritheciis sparsis, punctiformibus, melleis tandem fuscis, centro perforatis, cellulis subhexagonis contextis; sporulis oblongis, apicibus rotundatis, bi–plurinucleolatis, hyalinis, 10–15 ≃ 3–5. 3375

Hab. in caulibus languidis et aridis Medicaginis sativæ pr. Parmam Ital. bor.

47. **Leptothyrium Thalictri** Thüm. Contr. Myc. Lus. n. 582. — Peritheciis gregariis, parvulis, globulosis, nigris, liberis, emersis; sporulis fusiformi-bacillaribus, utrinque subobtusatis, continuis, rectis vel raro subarcuatis, hyalinis, 10–12 ≃ 2. 3376

Hab. in caulibus emortuis Thalictri flavi, Villa Franca pr. Coimbra (Moller).

48. **Leptothyrium Urticæ** Pr. F. Hoyersw. n. 143. — Peritheciis solitariis vel connatis, gregariis pulvinatis, subplicatis, papillatis, atris, 3377

secedentibus seu circumscisso-solutis; contextu perithecii celluloso; nucleis luteis fluxilibus gelatinosis; sporulis minutis numerosis obovato-cylindricis, pellucidis.

Hab. ad caules Urticæ dejectos, Hoyerswerda.

49. **Leptothyrium scutiforme** (Fr.) Sacc. *Sphæria scutiformis* Fr. Elench. II. p. 105. — Peritheciis applanatis, orbicularibus, concentrice striatis, atris, intus concoloribus; nucleo centrali incluso atro. 3378

Hab. ad caules herbarum exsiccatos pr. Rouen Galliæ (Lévieux). — Perithecium exterius basi deficiens, tantum superum scutulas sistit orbiculares, applanatas, basi cauli adnatas, lineam æquantes, extus concentrice striatas, opacas, atras, in centro umbonatas.

50. **Leptothyrium Ptarmicæ** (Desm.) Sacc. Mich. II. p. 114. *Labrella Ptarmicæ* Desm. Exs. n. 149 ex parte? — Peritheciis plano-scutatis, elliptico-circularibus, 300 μ. diam., astomis, contextu minute sinuoso-parenchymatico fuligineo; sporulis ovato-oblongis, 10 ≃ 6-7, nubilosis, quandoque plasmate obsolete 2-partito, hyalinis, basidiis teretibus brevioribus suffultis. 3379

Hab. in caulibus Achilleæ Ptarmicæ cultæ in Gallia. — *Schizothyrii Ptarmicæ* facile spermogonium.

51. **Leptothyrium punctulatum** Sacc. Mich. II. p. 113. — Peritheciis superficialibus, gregariis, plano-scutatis, elliptico-circularibus, subastomis, 150 ≃ 100-120, obsolete radiato-contextis, fuligineis, margine saturatioribus; sporulis falcato-allantoideis, 6 ≃ 1,5, utrinque acutis, hyalinis in strato proligero hyalino-celluloso subsessilibus. 3380

Hab. in caulibus Scrophulariæ nodosæ et Dentariæ pinnatæ prope Lyon Galliæ (Therry).

52. **Leptothyrium protuberans** Sacc. Mich. II. pag. 351, 380 et 574. An *Phoma protuberans* Lév. saltem ex parte? — Pseudoperitheciis clypeato-convexis, majusculis, 1 mill. diam., atro-nitidis ab epidermide fungificata formatis; sporulis fusoideis, curvis, 7-9 ≃ 1½-2, hyalinis; basidiis filiformibus simplicibus vel furcatis, 20-25 ≃ 1. 3381

Hab. in caulibus Potentillæ, Helianthemi etc. in Gallia, Italia et America boreali. — Species *Lept. macrothecio* Fuck. peraffinis.

III. *In plantis monocotyledoneis et acotyledoneis.*

53. **Leptothyrium Calami** Karst. Hedw. 1883, p. 180. — Peritheciis sparsis, elongato- vel oblongato- difformibus, planiusculis, nigris, 3382

nitidulis, 0,2–0,4 mill. longis; sporulis elongatis vel fusoideis, hyalinis, rectiusculis, 3 ≃ 0,5.

Hab. in foliis putrescentibus Acori Calami prope Aboam in Fennia.

54. **Leptothyrium subtectum** Sacc. Mich. II. p. 529. — Peritheciis laxe gregariis, epidermide subvelatis, atris, nitidis, applanatis, $^1/_4$ mill. diam., subastomis, cellulis perithecii parenchymaticis fuligineis, in peritheciis basi dimidio minoribus; sporulis subfusoideis, curvulis, 18–20 ≃ 2,5–3, 3–4-guttulatis, hyalinis, basidiis brevibus obtusis, sporulâ triplo brevioribus suffultis. 3383

Hab. in foliis Luzulæ in silva Montello Italiæ bor. — A *Lept. caricino* Fr. differt peritheciis non secedentibus, a *Lept. Luzulæ* sporulis non globosis etc.

55. **Leptothyrium Holoschœni** (Dur. et Mont.) Sacc. *Leptostroma Holoschœni* Dur. et Mont. Fl. Alg. p. 615. Syll. Crypt. n. 661. — Minutissimum, punctiforme, orbiculatum, atrum, nitidum, *Microthyrium* quoddam referens, tandem secedens; sporulis oblongis simulate uniseptatis. 3384

Hab. ad culmos Holoschœni, Alger (Durieu).

56. **Leptothyrium litigiosum** (Desm.) Sacc. Mich. II. pag. 113. *Leptostroma litigiosum* Ann. Sc. nat. 1843, p. 338. — Peritheciis circularibus, planis, 90–100 μ. diam., gregariis v. sparsis, atris, sub vitro olivaceo-fuligineis, facile secedentibus, eximie radiatim textis; sporulis botuliformibus, 4–5 ≃ 0,7–1, hyalinis. 3385

Hab. in stipitibus Pteridis aquilinæ in Gallia, Italia, Britannia, Lusitania, Fennia. — Verisimiliter spermogonium *Microthyrii litigiosi.*

57. **Leptothyrium fragilissimum** (Mont.) Sacc. *Leptostroma fragilissimum* Mont. Cent. VI. n. 12. Syll. Crypt. n. 660. — Hypophyllum, difforme, convexo-planum, atrum, opacum, ruguloso-reticulatum; peritheciis punctiformibus confluentibus tandem in crustam orbicularem aut irregularem congregatis; sporulis lineari-oblongis. 3386

Hab. in foliis Lindseæ, Tahiti (J. Lépine). — Habitus *Dothideæ granulosæ* Hook. Teste Streinz Nom. Fung. p. 356 species hæc ad *Erineum Grewianum* Fée ducenda est, evidentissime ex errore, Streinzio ceterum tam sollemni!

PIGGOTIA B. et Br. Ann. N. H. n. 503, t. V. f. 3. (Etym. a cl. Piggot, botanophilo anglico). — Perithecia applanata, inæqualia, tenui-membranacea, initio cuticulâ tenerrimâ velata sæpe stellatim

digesta. Sporulæ oblongæ v. subcylindraceæ, continuæ, subhyalinæ v. flavidæ, basidiis teretiusculis suffultæ.

1. **Piggotia astroidea** B. et Br., Ann. N. H. n. 503, t. V. f. 3. *Asteroma Ulmi* Grev. F. Ed. p. 368. — Epiphylla; peritheciis vix prominulis, connatis, tuberculos minutos stellatim aggregatos formantibus; contextu perithecii minute parenchymatico, atro-olivaceo; sporulis oblongis basi truncatis, apice rotundatis, 8–10 ≃ 5–6, minute 2–4-guttulatis dilute luteolis, basidiis cylindraceis fasciculatis apice truncatis luteolis suffultis. 3387

Hab. in foliis vivis Ulmi campestris subinde flavido-maculatis.

2. **Piggotia atronitens** Oud. Mat. Myc. Neerl. II. p. 21. — Peritheciis spuriis maculiformibus irregularibus, aterrimis, nitidis, ramicolis, inferne deficientibus; sporulis minutissimis oblongis; basidiis filiformibus. 3388

Hab. in ramulis Salicis prope Harlem Hollandiæ. — Affinis *P. astroideæ*, sed sporulis minoribus, peritheciis satis diversis distinguenda.

3. **Piggotia Fraxini** B. et C. North Am. Fungi n. 433 bis. — Peritheciis hypophyllis, 2–3 hic illic in cæspites punctiformes rugulosos congestis; sporulis oblongis minutis, 5–7 μ. longis. 3389

Hab. in foliis Fraxini in Pensylvania (Michener).

MELASMIA Lév. Ann. Sc. nat. 1846, p. 276, Sacc. Mich. II. pag. 9. (Etym. a *melasma* nigredo). — Perithecia dimidiata, plana subastoma v. rimosa, membranacea, atra, stromate effuso, nigricante, sæpius phyllogeno innata. Sporulæ botuliformes, continuæ, subhyalinæ, basidiis sæpe bacillaribus suffultæ. Habitus et spermogonia *Rhytismatum*.

1. **Melasmia acerina** Lév. Ann. Sc. nat. 1846, p. 276 et 1848 p. 252. — Peritheciis epiphyllis adnatis gregariis v. confluentibus, maculas nigras suborbiculares pustulosas zona flavicante cinctas efficientibus, initio hemisphæricis dein complanatis, membranaceis, rugulosis, rufo-fuscis; sporulis botuliformibus, curvulis, 6–9 ≃ 1, hyalinis, utrinque obtusiusculis. 3390

Hab. in foliis subvivis Aceris campestris, A. Pseudoplatani, A. platanoidis in Gallia, Germania, Italia, Britannia, Austria, Amer. bor. — Adest forma in foliis Myrsines prorsus similis in Texas Amer. bor.

2. **Melasmia punctata** Sacc. et Roum. Mich. II. pag. 632. — Maculis 3391
majusculis flavicantibus, obsoletis; peritheciis epiphyllis, deplanatis, atris, subsuperficialibus, minutissime areolato-contextis, astomis, demum subinde confluentibus; sporulis breve allantoideis 4–5 ≃ 1, hyalinis, in basidiis teretibus, longiusculis, simplicibus ramulosisque acro-pleurogenis.

Hab. in foliis Aceris Pseudoplatani et Ac. campestris in Arduennis, Austria et Ital. bor. — *Mel. punctata* Thüm. Symb. Austr. II. p. 194 eadem videtur, sed descriptio sporularum non convenit.

3. **Melasmia ulmicola** B. et C. North Amer. Fungi n. 433. — Puncti- 3392
formis, prominula basi epidermide cincta e maculis rufis indefinitis oriunda; sporulis minutis oblongo-botuliformibus.

Hab. in foliis Ulmi americanæ, Massachusetts Amer. bor. — Inter *Melasmiam* et *Piggotiam* forma fere media.

4. **Melasmia Caraganæ** Thüm. Pilzfl. Sibir. n. 120. — Crustas am- 3393
phigenas, plus minusve cohærentes, atras, gibbosas, magnas in macula indeterminata, flavescenti formans; peritheciis congregatis vel confluentibus, rimosis, atris; sporulis subfiliformibus, apice acutatis, basi angustato-pedicellatis, paucicurvatis, 20 ≃ 3, hyalinis.

Hab. in foliis ramulisque vivis Caraganæ arborescentis pr. Minussinsk in Sibiria asiatica.

5. **Melasmia arbuticola** Vize in Grevillea. — Gregaria, atrobrunnea, 3394
orbicularis, rugosa, e maculis rufo-brunneis oriunda; sporulis minutis, hyalinis, rectis, spermatioideis, 3,5 μ. longis.

Hab. in foliis Arbuti in California (Harkness).

6. **Melasmia Berberidis** Thüm. et Wint. F. austr. n. 201. — Peri- 3395
theciis dense gregariis, parvis, in macula brunnea paginæ superioris foliorum, interdum etiam in pagina inferiore, concavis, atris, nitidis; sporulis longe stipitatis, breviter cylindraceis, curvatis.

Hab. ad folia viva Berberidis vulgaris pr. Krems Austriæ (de Thümen).

7. **Melasmia Aviculariæ** West. 5 Not. n. 70, *Phyllosticta melano-* 3396
placa West. Exs. n. 1141. — Peritheciis punctiformibus, exiguis, atris, numerosis, crebris indeque maculas nigricantes effusas formantibus; ostiolo poriformi; sporulis ovoideis, hyalinis, 3–3,5 ≃ 1,5.

Hab. in foliis Polygoni avicularis pr. Nieuport Belgii.

ACTINOTHECIUM Ces. Hedw. I. t. XI. f. 3 (Etym. *actin* radius, et *theca* pro perithecio). — Perithecia initio suborbicularia v. angu-

losa, scutata, radiatim dehiscentia, sæpe in radios 5–7 oblongos v. lanceolatos e centro stellatim divergentes divisa; radiis longitudinaliter anguste rimosis; contextu parenchymatico, radiato. Sporulæ ovato-oblongæ continuæ, hyalinæ. — Habitus fere *Aulographi;* nisi perithecia divisa, vix a *Leptothyrio* distinguitur.

1. **Actinothecium caricicolum** Ces. l. c. in Kl. Herb. myc. n. 1976. 3397
— Characteres generis.

Hab. in utraque pagina foliorum et in vaginis Caricis montanæ etc. in collibus Brescia Ital. bor. — Perithecia levia, nigra, gregaria v. confluentia.

2. **Actinothecium? Scortechinii** Sacc. et Berl. — Peritheciis linearibus, rectis v. curvulis, subsuperficialibus, furcatis v. varie ramosis, utrinque rotundatis, plano-convexulis, longitudinaliter obtuse sulcatis (ibi tamen non dehiscentibus), poris inæqualibus hinc inde apertis, contextu minute et distincte parenchymatico, cellulis subcuboideis bifariam directis; sporulis non visis. 3398

Hab. in pag. sup. Smilacis pr. Logan Queenslandiæ australis (Scortechini). — Etsi fructificatio ignota, huc pertinere videtur. — Cl. et Rev. B. Scortechini italo in remota Australia et Malesia strenuo Botanices scrutatori dicata species.

LEPTOSTROMA Fr. Obs. II. p. 361. p. p. Sacc. Mich. II. p. 114, n. 955. (Etym. *leptos* tenuis, et *stroma*). — Perithecia dimidiata, subsuperficialia v. cuticulâ tenuissimâ initio velata, applanata, elongata, atra, sæpius nitidula, rimâ v. carinâ longitudinali plus minusve manifestâ hysteriiformi vittata. Sporulæ ovoideæ, oblongæ v. allantoideæ, continuæ, subhyalinæ. — Speciebus perithecio subcirculari, carinâ v. rimâ long. carente instructis ad gen. *Leptothyrium* ductis, gen. *Leptostroma* Fr. ad species limito, quæ peritheciis elongatis et longitudinaliter subrimosis utuntur. — Multæ tamen species dubiæ, quia ignota fructificatio.

I. *In dicotyledoneis lignosis.*

A) Species ramicolæ.

1. **Leptostroma virgultorum** Sacc. Mich. II. p. 350. — Peritheciis subsuperficialibus, plano-clypeatis, oblongis, atronitentibus, rimula spuria exaratis; sporulis tereti-oblongis, 4–5 ≃ 1, hyalinis, basidiis filiformibus fasciculatis, 20–25 ≃ 1, suffultis. 3399

Hab. In sarmentis emortuis Rubi fruticosi pr. Rouen Galliæ (Lefendre). — Certe spermogonium *Hypodermatis virgulto-*

rum f. *Rubi*, totoque cælo diversum a *Lept. vulgari* (Cfr. Tul. Carp. et Fuck. Symb. 258). — β. **rubinum** Karst. Symb. myc. Fenn. XII. pag. 13: peritheciis sparsis vel subgregariis sublanceolatis; sporulis elongato-fusoideis, sæpe curvulis 5-7 ≃ 1, basidiis 21-25 ≃ 1 suffultis. In sarmentis Rubi arctici in Fennia.

2. **Leptostroma Rubi** (Lib.) Speg. et Roum. Reliq. Lib. I. n. 611. *Perisporium Rubi* Lib. Exs. — Superficiale, innatum, gregarium, humiditate globosum, siccitate cupulato-collapsum, nitidum, atrum, poro pertusum; contextu tenui, parenchymatico-membranaceo, atro; sporulis e strato proligero pachydermatico oriundis, cylindraceis, pluriguttulatis, utrinque rotundatis 8-10 ≃ 2. 3400

Hab. ad ramos exsiccatos Rubi in Arduennis et in Alpibus venetis. — Non vidi sed e diagnosi potius *Phoma* videtur.

3. **Leptostroma scriptum** Fr. Obs. II. p. 357. — Erumpens, elongato-lineare, flexuosum vel subrotundum, demum disco concaviusculo apertum. 3401

Hab. in epidermide ramorum emortuorum Aceris Negundinis in Germania et Scandinavia. — Habitu *Arthoniæ* et vegetatione epixyla a reliquis diversum. Forma nulla constans.

4. **Leptostroma acerinum** Schw. Syn. Am. bor. n. 2196. — Subrotundum, gregarium, immerso-innatum, ex olivaceo nigrum, margine atriori, applanatum, rimosum. 3402

Hab. in junioribus ramis Aceris pensylvanici, Mauch Chunk Amer. bor. — Affine *L. fructigeno* et *L. Donacis.*

5. **Leptostroma rhoinum** Schw. Syn. Amer. bor. n. 2188. — Puncta minima, undique sparsa, atra, non nitentia per lentem ovata, subrotunda offert; primum tectum, demum denudatum, centro collapsulo, costa rimæformi subelevata centrali; majora elliptico-acuminata perithecia minoribus mixta. 3403

Hab. in petiolis Rhois glabræ, Bethlehem Amer. bor.

6. **Leptostroma Capreæ** Lib. in Herb. et Cooke Grev. *Lept. herbarum* f. *Salicis* Link Handb. III. p. 345 (teste Speg. et Roum. in Rev. Myc.). — Sparsum, rotundum vel ovatum, nigrum, nitidum; pulpa sporulosa alba; sporulis ovoideis. 3404

Hab. in ramulis siccis Salicis capreæ in Arduennis.

7. **Leptostroma confluens** Cooke Grev. XII. p. 22. — Peritheciis orbicularibus, applanatis, atris, demum confluentibus, in plagas irregulares aggregatis; sporulis ellipticis, hyalinis, 4 ≃ 2. 3405

Hab. in cortice Pini in Carolina inf. (Ravenel).

8. **Leptostroma piceum** Schw. Syn. Am. bor. n. 2193. — Crusta qua- 3406

si nigro-picea, tenuiores caules undique circumdans, subcontinua, subindeterminata ambitu; huic insident perithecia ovata, oblonga et difformiter lobata, margine subelevato, superficie concaviuscula et rariter in crusta sparsa; rarius observantur perithecia conformia extra fines crustæ.

Hab. in dejectis stipitibus ignotis, Bethlehem Amer. bor. — Rarum sed distinctissimum.

B) Species foliicolæ et fructicolæ.

9. **Leptostroma Pinorum** Sacc. Mich. II. p. 632. — Peritheciis subseriatis, elongatis, atro-nitidulis minutis, convexiusculis, hysterioideis; sporulis cylindricis utrinque obtusiusculis, 8–10 ≃ 0,5, rectis, hyalinis; basidiis brevissimis fasciculatis. 3407

Hab. in acubus Pinorum, Brionne Galliæ (Malbranche). — An spermogonium *Aulographi Pinorum* Desm.?

10. **Leptostroma Pinastri** Desm. Ann. Sc. nat. 1843, p. 338. — Peritheciis anguste linearibus, parallelis, 1 ≃ 1/8 mill. diam., atris, epidermide initio tectis; sporulis cylindraceis, minutis, 6–8 ≃ 1/2–1, hyalinis, basidiis subæquilongis fasciculatis suffultis. 3408

Hab. in foliis Pini silvestris, P. maritimæ etc. in Gallia, Germania. — Homonyma species (in Grevillea) ex New Jersey sporulis ovoideis 3–4 μ. longis omnino differt. *Leptostroma Pinastri* in Sacc. Myc. Veneta n. 989 est, ut monui, *Phoma acicola* (Lév.).

11. **Leptostroma durissimum** Cooke in Grevillea. — Gregarium; peritheciis atris, scutatis, irregularibus vel confluentibus, durissimis; sporulis linearibus, obtusis, 8 μ. longis. 3409

Hab. in foliis Pinorum, Aiken in Carolina australi.

12. **Leptostroma laricinum** Fuck. Symb. p. 256. — Peritheciis gregariis, minutissimis, orbicularibus, convexis, demum applanatis, plicatis, aterrimis, nitidis, in macula pallida; conidiis ovoideis minutissimis. 3410

Hab. in foliis dejectis Laricis europææ in Rhenogovia. — Spermogonium *Lophodermii laricini* Fuck.

13. **Leptostroma discosioides** Winter Cont. Myc. Lus. n. 784. — Peritheciis clypeatis, plerumque orbicularibus, interdum confluentibus, nitide atris, circa 120–200 μ. lat., in macula pallide lutea, indeterminata et irregulari, plerumque secus nervos primarios expansa gregariis, hypophyllis; sporulis minutissimis, bacillaribus, hyalinis, continuis, 3,5 ≃ 0,8. 3411

Hab. in foliis aridis Lagerstrœmiæ indicæ, Coimbra Lusitaniæ in horto botanico.

14. **Leptostroma costatum** Rabenh. Deutsch. Cr. Fl. n. 1283. — Peritheciis suborbicularibus, $^1/_2$ mill. diam., superne acutiusculis, longitrorsum regulariter, 7–10-sulcatis, brunneo-atris, intus pallidioribus. 3412

Hab. in foliis emortuis Quercus pubescentis in Lombardia Ital. bor. (1841, Rabenhorst).

15. **Leptostroma punctiforme** Wallr. Fl. crypt. n. 1395. — Peritheciis exiguis, punctiformibus, nigris, opacis, innatis, sparsis, arcte adhærentibus cum cubilibus adæquato. 3413

Hab. ad pag. infer. foliorum vegetorum Salicis capreæ, Euphorbiæ Cyparissiæ, Rosæ, Buxi, Cratægi, Saussureæ in Germania et Sibiria.

16. **Leptostroma areolatum** (Fr.) Wallr. Fl. cr. n. 1399 *Sclerotium areolatum* Fr. S. M. II. p. 263 et Obs. II. p. 553, t. 7, f. 5. — Pseudostromate planiusculo opaco, nigro-fusco, foliorum parenchyma obreptando infarciente, demum bullato. 3414

Hab. ad folia languida Pruni Padi et virginianæ in Suecia et Germania.

17. **Leptostroma Camelliæ** Zenker, Flora 1834, I. p. 211, t. III. fig. 1–7. — Subhemisphæricum, demum depressum, leve, subnitidum, rufescens, centro umbonatum, umbone albido-lutescente. 3415

Hab. in pag. inf. foliorum Camelliæ japonicæ, Jena Germaniæ. — «An vere fungus?»

18. **Leptostroma fructigenum** Schw. Syn. Am. bor. n. 2187. — Superficie glabra, punctiforme; peritheciis plerumque concentrice aggregatis, centro depresso, superficie subrugulosa ceterum nigris. 3416

Hab. in ipsa glaberrima epidermide Pomorum, maturorum, præsertim vulgo dictorum Vandeeveo, Bethlehem Amer. bor.

II. *In monocotyledoneis et acotyledoneis.*

2| 252

19. **Leptostroma donacinum** Sacc. Mich. II. p. 350 (*Lept. Donacis*). — Peritheciis lineolatim et parallele dispositis, innato-erumpentibus, anguste oblongis, $^1/_4$–$^1/_2$ mill. long. $^1/_{10}$ cr., nigris; rimula perexigua; sporulis tereti-oblongis, teretiusculis, $4 \simeq 1$, hyalinis. 3417

Hab. in culmis emortuis Arundinis Donacis in Gallia australi.

20. **Leptostroma Donacis** Schw. Syn. Am. bor. n. 2186. — Orbicu- 3418

latum, 1-2 lin. diam., scutiforme ambitu quasi lobatum, olivaceo-nigrum, applanato-elevatum, centro subumbonatum.

Hab. in culmis viridibus et subviridibus Arundinis Donacis, Salem Amer. bor. — An potius *Actinothyrium?*

21. **Leptostroma Phragmitis** Fr. in Kl. Herb. Myc. n. 786. — Perithecii lanceolatis, majusculis, atris 1-1½ mill. long., ⅓ cr., distincte rimosis; sporulis fusoideis, majusculis, 15-20 ≃ 3½-4, 4-guttulatis, curvulis, hyalinis. 3419

Hab. in culmo Phragmitis in Suecia et prope Kappel Germaniæ (P. Magnus). — Diagnosim erui ex speciminibus Magnusianis, nam originalia mihi desunt; hinc dubium, an identicæ species sint.

22. **Leptostroma? Poæ** Lib. in Herb. et Cooke in Grevillea. — Simplex, rotundum, leve, planissimum, nigrum, substantia ceracea, fusca, totum secedens; sporulis globosis, hyalinis, stipitatis. 3420

Hab. in Poa sudetica in Arduennis. — « An *Leptothyrium?* An spermogonium *Scirrhiæ Poæ?* »

23. **Leptostroma cereale** Schw. Syn. Am. bor. n. 2191. — Primum sub epidermide tectum, qua dejecta, nudum et innatum evadit, nigro-nitens, ellipticum, subelevatum utrinque acuminatum, centro late depresso; massa quadam alba implet interiorem partem. 3421

Hab. frequens in culmis adhuc stantibus post messem, Bethlehem Amer. bor. — An *Sclerotium?* — Circum perithecia epidermidis tingitur nigro-fusca, efficiens maculas trilineares.

24. **Leptostroma marginatum** Schw. Syn. Am. bor. n. 2192. — Superficiale, oblongo-ovatum, sed longitudinaliter miro modo quasi effiguratum, confluens; interdum maculam efficiens semiuncialem, utrinque rotundatam, atram sed non nitentem; margine manifeste elevato cinctum est perithecium, superficie applanata minute tuberculosa; subdetergibile et ideo non innatum. 3422

Hab. in culmis crassioribus Graminum rarius, Bethlehem in America boreali.

25. **Leptostroma Zizaniæ** Schw. Syn. Am. bor. n. 2194. — Magnum, piceum, nitens, bullatim effusum. 3423

Hab. in defossis radicibus Zizaniæ prope Philadelphiam Americæ borealis.

26. **Leptostroma micropunctum** Cooke, Grev. XII. p. 22. — Gregarium; peritheciis minutissimis, applanatis, atris, maculas suborbiculares efformantibus; sporulis linearibus, hyalinis, utrinque obtusis, 6 ≃ 1,5. 3424

Hab. in Sabal in Carolina inf. (Ravenel).

27. **Leptostroma Smilacis** Cooke in Rav. Fung. Amer. n. 20 et in Hedwigia 1878, p. 37. — Peritheciis scutellæformibus, orbicularibus, opacis, subrugosis; sporulis ovatis, minutis, hyalinis, 4 ≃ 2,5. 3425

Hab. in caulibus Smilacis laurifoliæ, Aiken in Carol. inf.

28. **Leptostroma Polygonatum** Lasch in Kl. Herb. Myc. n. 382 et Rabenh. D. C. Fl. Fungi p. 142. — Peritheciis copiosis, hemisphæricis, gregariis, demum collabascentibus et subinde confluentibus, nigris, nitidis. 3426

Hab. in caulibus siccis Convallariæ Polygonati et C. multifloræ in Germania et Italia.

29. **Leptostroma scirpinum** Fr. Obs. II. p. 357, Syst. myc. II. p. 598 *Lept. xylomoides* Fr. Obs. II. p. 197, t. I. f. 6. — Orbiculare, opacum, centro umbonatum, demum totum secedens, disco albido. 3427

Hab. in calamis foliisque Scirpi lacustris, S. triquetri, S. Tabernæmontani, S. silvatici, S. maritimi in Suecia, Germania, Lusitania, Italia, Sibiria. — Duplex occurrit varietas: altera major, sparsa, absque macula; altera minor, maculæ pallidæ nigrolimitatæ innata.

30. **Leptostroma nitidum** Wallr. Fl. cr. n. 1401, *Lept. Iridis* β. *Typhæ Duby* Bot. Gall. II. pag. 726. — Peritheciis oblongis sparsis demum confluentibus, aterrimis, nitidis, longitudinaliter striatis. 3428

Hab. ad folia viva Typhæ angustifoliæ in Thuringia et Rhenogovia.

31. **Leptostroma Juncacearum** Sacc. Mich. II. p. 352. — Peritheciis plano-clypeatis, ovatis, atro-nitidulis ½ mill. long. rimulâ obsoletâ notatis; contextu parenchymatico non radiato; sporulis copiosis, tereti-fusoideis, 4–5 ≃ ½, obsolete 2-guttulatis, hyalinis, basidiis bacillaribus dense fasciculatis, 10 ≃ 1–1½, hyalinis suffultis. 3429

Hab. in calamis emortuis Junci conglomerati v. affinis, Quevilly, Rouen; et in foliis Luzulæ silvaticæ, Francheville et in Arduennis nec non in Fennia. — An huc spectet *L. Luzulæ* Lib., deficientibus exemplaribus dijudicare nequeo; certe quod describitur in Lamb. Myc. Belg. III. 105, alienum est. *L. juncinum* Fr., Sacc. Mich. II. 282 quoque prorsus differt. Quod sub hoc postremo nomine accepi a nonnulis mycologis, potius *Phyllachoræ Junci* (Fr.) initia sistit.

32. **Leptostroma Luzulæ** Lib. Exs. n. 75, sec. Lamb. Myc. Belg. III. p. 105. — Peritheciis subcircularibus, leniter umbonatis, atro-nitidis, sparsis, maculâ brunneâ cinctis; sporulis globulosis. 3430

Hab. in foliis subvivis Luzulæ maximæ et pilosæ in Arduennis, in Rhenogovia pr. Nassogne Belgii et in Sibiria.

33. **Leptostroma caricinum** Fr. Obs. II. p. 361. t. VII. f. 4. Syst. Myc. II. p. 598. — Subrotundum, inæquale, tenue, opacum, totum secedens, macula fusca. 3431

Hab. in foliis Caricum, Eriophori angustifolii etc. in Suecia, Britannia et America boreali. — Maculæ rotundæ v. oblongæ, planæ, atræ, absque umbone, lineam haud longæ, demum ex nervis matricis rugosæ. Cave, ne pro *Arthrinio* juniore habeas.

34. **Leptostroma inundatorum** Schw. Syn. Am. bor. n. 2195. — Effiguratim effusum, atrum, confluens, innatum, applanatum, conflatum ex multis parvis peritheciis. 3432

Hab. in culmo caricino magno, Philadelphia in Delaware Americæ borealis.

35. **Leptostroma Pteridis** Ehrenb. Sylv. Berol. p. 27, Kickx Fl. cr. Fl. I. p. 408. — Peritheciis oblongis, nigris, nitidis, innatis, tectis, dein prominulis, confluendo plagulas plus minusve longitudinaliter elongatas, irregulares formantibus, superficie granulosis. 3433

Hab. in stipitibus siccis Pteridis aquilinæ in Belgio et Germania.

36. **Leptostroma filicinum** Fr. Syst. Myc. II. p. 599. *Schizoderma filicinum* Ehrenb. Sylv. p. 15, *Hypoderma striæforme* DC. — Elongatum, difforme, leve, nigrum, adultum costâ elevatâ insignitum demumque totum secedens. 3434

Hab. in stipitibus Pteridis, Osmundæ, Aspidii in Suecia, Germania, Italia, Britannia, Gallia et Amer. bor. — «Contextus perithecii plano-lanceolati, minute parenchymaticus, fuligineus, nucleo celluloso, subolivaceo, cellulis obtusis, 4–5 ≃ 4. Suspicor nil esse nisi statum juvenilem *Rhopographi filicini* (Sow.) Nits.»

37. **Leptostroma Aspidiorum** Schw. Syn. Am. bor. n. 2190. — Minutum, subrotundum, confluens, fusco-nigrum nitens, parum elevatum impressum, rarissime tractu lineari, sed plerumque effiguratim confluens, interdum simplex et punctiforme. 3435

Hab. non rarum in stipitibus variorum Aspidiorum, Bethlehem Amer. bor.

III. *In dicotyledoneis herbaceis.*

38. **Leptostroma herbarum** (Fr.) Link. Handb. III. pag. 345. Sacc. Mich. II. p. 352. *Sclerotium herbarum* Fr. S. M. II. p. 599. — Peritheciis gregariis interdum confluentibus plano-convexiusculis, 3436

epidermide tenui initio velatis, lanceolatis, rimâ obsoletâ notatis, fusco-nigris, nitidulis; sporulis botuliformibus vel fusoideo-curvatis, 4–6 ≃ 1–1,5, hyalinis.

Hab. in caulibus Euphorbiæ, Potentillæ, Lini, Cerastii, Teucrii, Delphinii, Cimicifugæ, et ramulis Salicis capreæ in Suecia, Germania, Gallia, Sibiria.

39. **Leptostroma hypodermoides** Sacc. Mich. II. p. 114. — Peritheciis gregariis, planiusculis, epidermide initio subvelatis, nigris, lanceolatis, 1 mill. long. $^1/_3$ cr. rimâ vix notatis, contextu parenchymatico fuligineo; sporulis cylindraceis, 5 ≃ 1, 2-guttulatis, hyalinis, basidiis filiformibus, 21 ≃ 1, rectis suffultis. 3437

Hab. in caulibus Lamiorum, Conegliano Italiæ borealis, et Scrophulariæ aquaticæ pr. Rouen Galliæ. — Affine *Leptostromati herbarum* Link. (Schröt. F. Bad. n. 198), quod sporulis fusoideo-curvatis, 5–6 ≃ $1^1/_2$, præcipue differt.

40. **Leptostroma lineare** Lév. Ann. Sc. nat. 1848, p. 249. — Peritheciis innatis linearibus parallelis nigris hinc inde umbonatis secedentibus, basi stromatica alba; sporulis ellipticis continuis pellucidis. 3438

Hab. ad caules Tanaceti vulgaris prope Parisios Galliæ.

41. **Leptostroma lineatum** Sacc. *Leptostroma lineare* Peck Rep. on the St. Mus. N. Y. nec Lév. — Peritheciis planis, tenuibus, subangulosis, initio epidermide tectis, striatis, rimâ v. carinâ medio notatis, plerumque seriatim dispositis, nigris; sporulis minutis, oblongis, curvulis, hyalinis, 7–10 μ. longis. 3439

Hab. in caulibus emortuis Actææ spicatæ, Helderberg Mts. Americæ borealis.

42. **Leptostroma Spirææ** Fr. Syst. Myc. II. p. 599. *Xyloma Spirææ* Kunze Myk. Heft. I. p. 75. — Conglomerato-connatum, difforme, rugosum, nitidum, intus griseum, demum totum secedens; peritheciis minutis subhysterioideis (non radiato-contextis); sporulis falcatis, 6 ≃ $^3/_4$–1, hyalinis, utrinque acutis. 3440

Hab. in caulibus emortuis Spirææ Ulmariæ et S. Arunci etc. in Suecia, Britannia, Germania, Kamtschatka, Carolina. — Perithecia secedendo maculas fusco-nigras relinquunt. — Adest, teste Frieso, var. in Rubo cæsio.

43. **Leptostroma sphæroides** Fr. Syst. myc. II. p. 600. — Orbiculatum, tenue, convexum, leve, secedens, atrum. 3441

Hab. in caulibus herbarum e. g. Angelicæ in Suecia et Germania. — Punctiforme, regulare, vix nisi fructificans a *Sphæ-*

viis caulicolis distinguendum, in ambitu passim dilatato-tenuissimum. — β. nitens (Schw.) Fr. l. c. *Xyloma nitens* Schw. Carol. n. 262: peritheciis semiglobosis. In Carolina.

44. **Leptostroma Hyperici** Schw. Syn. Am. bor. n. 2189. — Minutum, primum tenerrima epidermide tectum; erumpens demum ac denudatum, rotundum aut elliptico acuminatum, e fusco-nigrum, absque nitore, valde elevatum, subsclerotioideum, interdum lineare et ramosim confluens. 3442

Hab. frequens in caulibus Hyperici perforati, Bethlehem Americæ borealis.

45. **Leptostroma Glechomæ** B. et Br. Ann. N. H. n. 1449. — Maculis helvolis; peritheciis irregularibus, minutis, epiphyllis; sporulis minutis oblongis. 3443

Hab. in foliis Glechomæ hederaceæ in Scotia. — «An *Leptothyrium?*».

IV. *Species vix notæ.*

46. **Leptostroma acerinum** Opiz Sezn. p. 130. — In agro Pragensi. 3444

47. **Leptostroma Alceæ** Kirchn. Lotos 1856, p. 204. — In Bohemia meridionali. 3445

48. **Leptostroma Cichorii** Kirchn. Lotos 1856, p. 204. — In Bohemia meridionali. 3446

49. **Leptostroma Impatientis** Kirchn. Lotos 1856, p. 204. — In Bohemia meridionali. 3447

50. **Leptostroma Rusci** Kirchn. Lotos 1856, p. 204. — In Bohemia meridionali. 3448

51. **Leptostroma Stellariæ** Kirchn. Lotos 1856, p. 204. — In Bohemia meridionali. 3449

52. **Leptostroma lonicericolum** Rabenh. Bot. Zeit. 1846, p. 46 (nomen) Kl. Herb. myc. n. 865 (Fiedler). 3450

53. **Leptostroma stipatum** Fr. Summ. Veg. p. 371, Scler. Suec. n. 192. — Lundæ. 3451

54. **Leptostroma Potentillæ** Karst. Fung. Spetsb. n. 59. — In foliis putrescentibus Potentillæ emarginatæ in Spetsberg. 3452

LABRELLA Fries Syst. Orb. Veg. I. p. 364 et Elench. II. pag. 149 (Etym. ob perithecium *labris* dehiscens). — Perithecia innata, sæpe spuria, atra, rotundata, v. inæqualia, rima dehiscentia. Sporulæ oblongæ v. fusoideæ v. globulosæ, continuæ, hyalinæ. — Pe-

rithecia subinde e matrice mutatà et atratà formata videntur. Species nonnullæ ad *Subcupulatas* seu *Excipulaceas* vergunt.

1. **Labrella Coryli** (Desm. et Rob.) Sacc. *Cheilaria Coryli* Desm. et Rob. Ann. Sc. nat. 1853, p. 226. — Maculis amphigenis irregularibus rufescentibus; peritheciis hypophyllis, raro epiphyllis, innatis, membranaceis, subgregariis perexiguis, rotundatis, pallide brunneis, rima longitudinali dehiscentibus, intus albidis; sporulis oblongis, subinde truncatis, clavulatis vel panduratis, hyalinis, 12-15 ≃ 5. 3453

Hab. in foliis Coryli Avellanæ in Gallia et Britannia. — Verisimiliter huc spectat *Glœosporium Coryli* Sacc. in quo tamen perithecium non videre licuit. Forte ad hoc genus quoque spectat *Cheilaria Arbuti*, quam sub *Phyllosticta* descripsi. Cfr. n. 118. *Labrella Fagi* Desm., deficiente prorsus perithecio, ad *Glœosporium Fagi* relata est.

2. **Labrella cedrina** Dur. et Mont. Fl. Alg., I. p. 599, t. 27, f. 7. Mont. Syll. Cr. n. 990. — Peritheciis dimidiatis oblongis confluenti-linearibus elongatis, rima longitudinali dehiscentibus; sporulis oblongis pedicellatis 5 ≃ 1,5-2. 3454

Hab. in foliis dejectis Cedri in summo monte Atlante Algeriæ (Durieu).

3. **Labrella Potentillæ** Fuck. Symb. p. 380. — Peritheciis sparsis, semiimmersis, basi applanatis, vertice conicis, duplo majoribus, quam *Sphærellæ punctiformis*, rima longitudinali dehiscentibus, atris; sporulis in globulum diaphanum, fuscescentem expulsis, cylindraceis, utrinque obtusis, simplicibus, hyalinis, 8 ≃ 2. 3455

Hab. in pag. sup. foliorum languidorum Potentillæ argenteæ pr. Œstrich Rhenogoviæ.

4. **Labrella Sibbaldiæ** Thüm. Pilzfl. Sibir. n. 604. — Peritheciis caulincolis raro etiam foliicolis, punctiformibus, gregariis, emersis, atris, basi applanatis, vertice conoideis; sporulis ovoideis vel globoso-ellipticis, simplicibus, utrinque obtusiusculis, achrois, 8 ≃ 5, in globulum fuscum, 20 μ. diam., expulsis. 3456

Hab. in caulibus subvivis et emortuis Sibbaldiæ erectæ in campis siccis arenosis pr. Minussinsk Sibiriæ asiaticæ. — A *Labrella Potentillæ* Fuck. Symb. mycol. p. 380 differt magnitudine et forma sporularum.

5. **Labrella Heraclei** (Lib.) Sacc. *Cheilaria Heraclei* Lib. Cr. Ard. Exs. n. 254. — Maculis obsoletis; peritheciis aggregatis, hemi- 3457

sphærico-subconicis, atro-nitidulis, rima dehiscentibus, nucleo pallido; sporulis fusoideis, curvulis, pellucidis.

Hab. in caulibus Heraclei Sphondylii et H. flavescentis in Gallia, Germania et Sibiria asiatica.

6. **Labrella Capsici** Fr. Elench. II. p. 149. — Maculis fuscis; peri- 3458
thecciis aggregatis inæqualibus; sporulis rotundatis.

Hab. in capsulis siccis Capsici in America bor. (Schweinitz). — Maculæ oriuntur e stromate tenerrimo, epidermidi suffuso, translucente, peritheciis aggregatis in modum *Dichænæ rugosæ*, ceterum irregularibus, ab epidermide rupta quasi formatis.

7. **Labrella Rosacearum** Corda Ic. fung. III. p. 30, fig. 80. — Pe- 3459
ritheciis erumpentibus ovatis, subdepressis, atris, nitidis, late rimosis; disco luteolo; sporulis erectis, subclavatis, pellucidis, intus granulosis; basidiis brevissimis caducis, crassiusculis.

Hab. in ramulis emortuis Rosarum pr. Prag Bohemiæ.

8. **Labrella Punctum** Corda Aul. t. I. f. 60, 1-3 et Ic. fung. II. p. 3460
25, f. 93. — Peritheciis minutissimis, punctiformibus, initio orbicularibus, dein ellipticis, disciformibus, fuscis, late rimosis, disco pallido; sporulis fusoideis, utrinque acutis, curvis vel flexuosis, subhyalinis, 12 μ. longis.

Hab. in ramulis emortuis lignosis decorticatis prope Reichenberg Bohemiæ.

9. **Labrella circumscripta** Pr. F. Hoyersw. n. 53. — Hypodermica, 3461
demum erumpens, elongata dein prominens, atra lineâ circumscripta; labiis nigrescentibus; basidiis filiformibus; sporulis oblongis, subfusiformibus guttulatis.

Hab. in ligno, Hoyerswerda.

10. **Labrella graminea** Fr. Elench. II. p. 149. — Macula nulla; pe- 3462
ritheciis rotundato-difformibus; sporulis ellipsoideis.

Hab. in foliis gramineis exsiccatis in Gallia (Mougeot). — Sclerotium minus referunt tubercula opaca, atra, demum vero rima longitudinali fissa. Situs sparsus.

11. **Labrella nitida** Schw. Syn. Amer. bor. n. 2175. — Maculatim 3463
aggregata; peritheciis atronitentibus superficialibus, ovatis, regularibus, e plano-convexis, rima centrali dehiscentibus, nec clausis et sterilibus ut solent *Leptostromata*.

Hab. rara in caulibus Polygonati, Bethlehem Amer. bor.

SACIDIUM Nees in Kunze et Schm. Myc. Hfte II. pag. 64 em. Sacc. Mich. II. p. 9. (Etym. demin. a *sacos* scutum). — Perithecia dimi-

diata, clypeata, astoma, atra, membranacea, contextu (in speciebus typicis) anhisto, punctulato, nec vere celluloso. Sporulæ globulosæ v. ellipsoideæ, hyalinæ v. pallide coloratæ. — Me auctore, genus hoc a *Leptothyrio* optime dignoscitur ob contextum non cellulosum; sed quoad plurimas species contextus ignotus; hinc incertum, an huc an *Leptothyrium* spectent.

I. *Species typicæ.*

Contextus perithecii anhistus v. punctulatus.

1. **Sacidium Spegazzinianum** Sacc. Mich. I. p. 94 F. ital. t. 92. — 3464
Peritheciis sparsis, superficialibus, dimidiatis, scutiformibus, 300–400 μ. diam., aterrimis, nitidulis, ostiolo nullo manifesto, contextu fuligineo, punctulato; sporulis e mutua pressione initio subangulosis, dein perfecte sphæricis, 10–12 diam., e hyalino flavis, minute pluriguttulatis.

Hab. in foliis languidis Aristolochiæ Clematitis, Urticæ dioicæ, Conegliano Italiæ borealis.

2. **Sacidium Venetum** Speg. Mich. I. p. 487. — Peritheciis sparsis, 3465
superficialibus subglobosis, 200–250 μ., atro-cærulescentibus, nitidulis, astomis, contextu atro-fuligineo, punctulato; sporulis ellipticis, crassiuscule tunicatis utrinque rotundatis, 12–15 ≃ 8–9, chlorino-flavidis, eguttulatis.

Hab. ad folia viva Salicis purpureæ, Conegliano Italiæ bor. rarissime. — Contextu peritheciorum cum *S. Spegazziniano* perfecte congruit.

3. **Sacidium Ulmariæ** Sacc. et Roum. Mich. II. p. 631. — Peritheciis 3466
gregariis epiphyllis, subsuperficialibus, nigris, scutiformibus, astomis, ½–1 mill. diam., tunica olivaceo-fusca anhista; sporulis perfecte globosis, 4–5 μ. diam., dilutissime roseis, hyalino-nucleatis, intermixtis pedicellis (?), 4 ≃ ½, hyalinis.

Hab. in pag. superiore foliorum Spirææ Ulmariæ in Arduennis (Libert).

4. **Sacidium chartarum** Sacc. et Penz. Mich. II. p. 631. — Perithe- 3467
ciis sparsis, superficialibus, dimidiatis, astomis, atronitidis, infra mancis nucleumque albidum ostendentibus, ¼ mill. diam.; contextu anhisto: sporulis globosis v. e mutua pressione anguloso-sphæricis, 14–18 μ. diam., intus granulosis, hyalinis.

Hab. in charta typographica putrescente uda Lyon Galliæ (Therry).

II. *Species quoad genus dubiæ.*

Contextus perithecii indescriptus.

5. **Sacidium Symploci** Cooke in Grevillea. — Epiphyllum; perithe- 3468
ciis punctiformibus, atris, scutatis, gregariis; sporulis subglobosis, hyalinis, 4 ≃ 3.

Hab. in foliis Symploci tinctoriæ, Aiken Carol. infer.

6. **Sacidium Gleditschiæ** Lév. Ann. Sc. nat. 1845, p. 64. — Hypo- 3469
phyllum; peritheciis gregariis punctiformibus applanatis rugulosis secedentibus, ostiolis pertusis vix conspicuis; sporulis ovoideis continuis, hyalinis.

Hab. in foliis Gleditschiæ in Texas Amer. bor.

7. **Sacidium Ixerbæ** Cooke N. Zeal. Fungi in Grevillea. — Epiphyl- 3470
lum, gregarium; peritheciis atris, prominulis, nitidis; sporulis subglobosis, hyalinis exacte globosis vel globoso-ellipsoideis, 7 ≃ 6.

Hab. in pag. sup. foliorum Ixerbæ brexioidis, Tuaranga Novæ Zelandiæ.

8. **Sacidium Gomphocarpi** Kalch. et Cooke in Grev. 1880, p. 20. — 3471
Maculis suborbicularibus, fuscis; peritheciis gregariis, minimis, applanatis, membranaceis, fuscis; sporulis subglobosis, achrois, 4 *μ*. diam.

Hab. in foliis Gomphocarpi fruticosi in Africa australi.

9. **Sacidium Duriæi** Mont. Fl. Alg., I. p. 613 et Syll. Crypt. n. 968. 3472
— Amphigenum; peritheciis sparsis aut confertis minutissimis, hemisphæricis fuscis, tandem elabentibus, punctilla alba relinquentibus; sporulis subgloboso-oblongis hyalinis.

Hab. in foliis siccis Dipsaci silvestris, Alger (Durieu).

10. **Sacidium junceum** Mont. VII. Cent. pl. cell. n. 12. — Peritheciis 3473
gregariis minimis atris, albo-farctis, mox circumscissis $\frac{1}{5}$ mill. d.; sporulis breviter subsemilunaribus, hyalinis, 6-guttulatis, utrinque acutiusculis.

Hab. in ramis Spartii juncei prope Montaud-lès-Miramas Galliæ (Castagne). — Affine *Sac. Natricis*, sed duplo minus.

11. **Sacidium Sambuci** Mont. in Castag., Supplém., p. 68 et Syll. 3474
Crypt. n. 969. — Peritheciis gregariis celluloso-membranaceis margine radiatis brunneis, apice poro pertusis tandemque deciduis; sporulis hyalinis oblongis breviter pedicellatis, biguttulatis.

Hab. in ramis emortuis Sambuci nigræ, Montaud Galliæ (Castagne).

12. **Sacidium versicolor** Desm. Ann. Sc. nat. 1853, p. 217. — Peri- 3475

theciis dimidiatis superficialibus, minutis, subgregariis, scutiformibus, udis convexiusculis, siccis, sæpe plicatis, margine vix radiatis, poro pertusis, initio argenteis, dein atris ac circumscissis; nucleo albido; sporulis oblongis, obtusiusculis, subfusoideis, 12 ≃ 3-4, 4-guttulatis.

Hab. in sarmentis vivis Rubi fruticosi in Gallia.

13. **Sacidium vegetans** Schw. Syn. Am. bor. n. 2198. — Peritheciis orbiculatis et difformibus superficialibus nigris, aggregatis sed non confluentibus in maculas; centro subelevato, pseudostiolato; superficie scutiformi rugosa. 3476

Hab. in junioribus virgultis Staphyleæ, frigore tactis sed non omnino enecatis, Bethlehem Amer. bor.

14. **Sacidium Mauritiæ** Mont. Syll. Cr. n. 971, et Cent. II. n. 64, in Ann. 2, XIV. p. 330, *Phoma Mauritiæ* Mont. olim. — Sphæriæforme, convexo-applanatum, leve, sub epidermide nidulans: pseudoperithecio fusco-nigro (a matrice mutata? suppeditato); sporulis ovoideis minimis fuscis. 3477

Hab. in petiolis Mauritiæ flexuosæ in Guyana (Leprieur).

15. **Sacidium Bryoniæ** Schw. Syn. Amer. bor. n. 2199. — Subepidermicum, tectum, punctiforme, minutissimum, atrum, ostiolo prorumpente subelevato; excussum, linquens foveolam pallidam cavam in epidermide. 3478

Hab. in ramulis junioribus Bryoniæ radicantis, frigore enecatis, Bethlehem Amer. bor.

16. **Sacidium Natricis** Mont. Syll. n. 970. — Peritheciis gregariis minutis dimidiatis convexis, demum circumscissis, atris, albo-farctis poroque pertusis; sporulis cymbiformi-ellipticis, 3-guttatis, longe pedicellatis. 3479

Hab. in caulibus Ononidis Natricis in Galloprovincia (Castagne).

17. **Sacidium alpestre** Ces. Flora 1855, p. 270. — Peritheciis scutiformibus, atris; sporulis lunulatis, utrinque obtusis. 3480

Hab. in caule Aconiti Napelli in montibus Lombardia et Piemonte, socià *Mazzantiâ Napelli.*

18. **Sacidium Chenopodii** Nees in K. et Schm. Myk. Heft. II. p. 64, t. II. f. 2, Corda Aul. t. I. f. 54, 4-5. — Peritheciis convexiusculis, epiphyllis, sparsis, minutis, nigris, rugulosis; sporulis subglobosis, pellucidis. 3481

Hab. in foliis Chenopodii viridis, Leyden Hollandiæ.

19. **Sacidium microsporum** Fr. Summa Veg. Scand. pag. 420. — He- 3482

misphæricum, punctiforme, astomum, magnitudine varium, atrum; sporulis minutis globosis.

Hab. in caulibus herbarum in Suecia.

20. **Sacidium umbilicatum** Fr. Summa Veg. Scand. p. 420. 3483

Hab. in caule Chærophylli bulbosi in Suecia.

PIROSTOMA Fries Summa V. S. p. 395 (Subgenus) (Etym. *peiro* transfigo, et *stoma*). — Perithecia dimidiata scutiformia subcircularia vel oblonga, membranacea, ostiolo umbilicato pertusa. Sporulæ globoso-ellipsoideæ, continuæ, fuligineæ.

1. **Pirostoma circinans** Fr. Summa V. S. p. 395, Fuck. Symb. p. 401, 3484
Coniosporium circinans Fr. S. M. III. p. 257, *Sphæria stigmatella* Wallr. Fl. Cr. n. 3797. — Peritheciis scutiformi-elongatis, adpressis, primo sparsis dein aggregatis, subcircinantibus, atris subnitidis centro umbilicato-pertusis; sporulis globosis vel ovoideis, fuscis, 12 μ. diam. circ.

Hab. in vaginis, foliis culmisque Phragmitis communis in Suecia, Germania, Gallia, Belgio, Italia, Mongolia.

DISCOSIA Lib. Exs. n. 345, Fr. Summa p. 423 (Etym. a *disco*, ob perithecii formam). — Perithecia dimidiata, disciformia, subsuperficialia, facile secedentia, atra, sæpe nitidula, astoma vel ostiolata, membranacea. Sporulæ oblongo-allantoideæ 2-pluriseptatæ, sæpius 3-septatæ, utrinque 1-ciliatæ, hyalinæ vel chlorinæ, basidiis bacillaribus suffultæ.

1. **Discosia Artocreas** (Tode) Fr. Summa p. 423, *Sphæria Artocreas* 3485
Tode Meckl. II. p. 77. — Peritheciis gregariis, innato-liberis, orbicularibus, nigris, nitidis, primo convexis, levibus, mox circa ostiolum punctiforme depressis, demum collapsis, rugoso-plicatis; sporulis botuliformibus utrinque sub apice rotundato setigeris, 3-septatis, hyalinis vel flavidis, 14-22 ≃ 2-3,5, setis 10-15 μ. longis.

Hab. in foliis plurimarum arborum et herbarum, Ligustri, Platani, Quercus (*Disc. quercicola* De Not.), Fraxini, Fagi (*Disc. faginea* Lib.), Prunorum, Rosarum, Ruborum, Cratægi, Betulæ, Populi, Acerum, Sorbi, Vitis, Mali, Lauri, Cercidis, Abietum, Magnoliarum, Araliæ, Robiniæ, Coryli, Pæoniæ, Ranunculi, Pteridis etc. in Gallia, Germania, Britannia, Italia, America bor. vulgatissima. — f. **Camphoræ** Sacc. Mich. II. p. 281: sporulis solito longioribus, nempe 30 ≃ 3½, tereti-curvulis, 3-septatis, hyalino-viridulis, setulâ 10 ≃ ¾

hyalinâ utrinque auctis. In foliis Camphoræ officinarum, Firenze Italiæ mediæ (Doct. O. Penzig).

2. **Discosia alnea** (Pers.) Berk. Outl. p. 318, *Dothidea alnea* Fr. Syst. Myc. II. p. 564, *Xyloma alneum* Pers. Syn. p. 108, *Phlyctidium nitidum* Wallr., *Discosia nitida* Lév. — Amphigena, sparsa, subrotunda, nigra, nitida, initio convexo-plana dein depressa, collapsa rugoso-plicata; sporulis 3-septatis, utrinque oblique 1-aristatis, 20 μ. long. 3486

Hab. ad folia subviva et languida Alni glutinosæ, A. incanæ, Magnoliæ in Suecia, Germania, Britannia, Amer. bor. — Probabiliter mera forma *Disc. Artocreatis.*

3. **Discosia clypeata** De Not. Micr. Des. III. n 7, nec in Saggio Discosia f. IV. quæ potius *D. Artocreas* spectat, Fres. Beitr. p. 68, t. VIII. f. 4. — Peritheciis scutiformibus, majusculis, ½ mill. d., subcircularibus, atris, demum rugulosis; sporulis fusoideis, utrinque acutis et ex ipso apice setulâ sporulam subæquante auctis, 3-septatis, non constrictis, subhyalinis, 16–17 μ. longis. 3487

Hab. in foliis dejectis Quercus, Fagi, Rosæ, Cratægi et Populi in Italia et Germania. — Teste Fresenio ab *D. Artocreate* peritheciis majoribus et setulis ex ipso apice sporularum oriundis facile dignoscitur.

4. **Discosia vagans** De Not. Att. Accad. Tor. 1849, p. 354, f. 5. — Peritheciis hypophyllis v. epiphyllis sparsis v. gregariis scutato-convexis, circularibus, oblongis v. reniformibus ostiolo breve papillato pertusis; sporulis teretiusculis, subrectis, utrinque acutiusculis, 3-septatis, non constrictis, utrinque sub apice setulâ patulâ sporulam dimidiam vix æquante auctis, 24–26 ≃ 3–3,5. 3488

Hab. in foliis Arbuti Unedonis et Lauri nobilis, Genova Italiæ borealis.

5. **Discosia maculicola** Gerard in Ellis North Amer. Fungi n. 1175. — Maculis epiphyllis vagis arescendo candicantibus, anguste fusco-cinctis; peritheciis dense gregariis, initio velatis, dein erumpentibus, scutatis, centro exiguo umbonato-pertusis, 150–170 μ. diam., atris; sporulis tereti-fusoideis, utrinque obtusiusculis, 14–15 ≃ 3–3,5, 3-septatis, chlorino-hyalinis, infra apices utrinque 1-ciliatis, ciliis 6–7 μ. longis. 3489

Hab. in foliis languidis Gaultheriæ procumbentis, Newfield N. J. Amer. bor.

6. **Discosia Julia** Speg. Mich. II. p. 281. — Peritheciis sparsis, magnis, ½–1, ½ mill. diam., disciformibus, lenticularibus, siccitate 3490

rugulosis, atris; sporulis cylindraceo-fusoideis inæquilateralibus, utrinque acutiuscule rotundatis, sublateraliter utrinque uniciliatis, granuloso-farctis, continuis, minutis, 5-6 = 1½, hyalinis; cilio superiore 2 μ. long. inferiore 3-4 μ. long.

Hab. ad folia Populi Tremulæ in montanis prope Belluno Italiæ bor. rarissime. — Species prædistincta, astoma.

7. **Discosia rugulosa** B. et C. North Amer. Fungi n. 432. — Peri- 3491
theciis orbicularibus, opacis, rugosis.

Hab. in foliis Caryæ albæ, Alabama, Florida, Chautauqua Lake Amer. bor. — A *Disc. Artocreate* præsertim peritheciis rugulosis et opacis mox distinguenda.

8. **Discosia deflectens** Sacc. Mich. II. p. 145. — Peritheciis (spuriis?) 3492
in maculis foliorum epiphyllis dealbatis gregariis, epidermide velatis, scutatis, nigris, 130 micr. diam., late pertusis; sporulis fusoideis, curvulis, 15-18 = 2½, 1-3-septatis, hyalino-chlorinis, infra apices setulas obliquas gerentibus.

Hab. in foliis Ilicis opacæ in Carolina infer. (Ravenel). — A *Disc. minima* B. et C., Ilicis quoque incola differt peritheciis pro genere mediocribus, nec minimis, sporulis longioribus, septulatis etc.

9. **Discosia ostiolata** B. et C. North Pac. Exp. n. 128. — Perithe- 3493
ciis elevatis; ostiolo distincto prominulo perforato; sporulis 3-septatis.

Hab. in foliis emortuis in insula Bonin Maris Pacifici.

10. **Discosia minima** B. et C. North Amer. Fungi n. 432bis. — Pe- 3494
ritheciis gregariis minutissimis, innumeris, punctiformibus; sporulis 36-37 μ. longis, continuis (ob immaturitatem?), utrinque appendiculatis.

Hab. in foliis Ilicis et Tiliæ pubescentis Alabama et Florida Amer. bor. — Sporulæ potius forte 12-13 μ. tantum longæ; videtur enim præ minutie peritheciorum legendum in diagnosi non .0015 (=37 μ.), sed .0005 (=13 μ.).

11. **Discosia pleurochæta** Mont. et Dur. Fl. Alg. I. pag. 587, t. 27 3495
f. 10, et Syll. Crypt. n. 994. — Amphigena; peritheciis sparsis rotundatis, convexis, apice late pertusis tandem rimose dehiscentibus; sporulis fusiformibus, 3-4-septatis, citra utrumque finem filamento hyalino instructis, 30 = 2,5.

Hab. in foliis dejectis Phillyreæ latifoliæ, Alger (Durieu).

12. **Discosia minuta** Ces. in Kl. Herb. Myc. n. 1961. — Peritheciis 3496
gregariis planiusculis, epiphyllis; sporulis cylindraceis obsolete cur-

vulis; aristis ex apicibus potius emergentibus, axi sporularum fere parallelis iisque æquilongis.

Hab. in foliis ..... in Italia boreali.

13. **Discosia elliptica** Fres. Beitr. Myk. p. 67, t. VIII. f. 9–11. — 3497
Peritheciis subsuperficialibus scutatis ellipticis, $^1/_2$ mill. long., atris, levibus, centro pertusis; sporulis tereti-fusoideis rectis, 3-septatis non constrictis, hyalinis, infra apices setulâ sporulam dimidiam æquante utrinque auctis, 15 μ. longis (absque ciliis).

Hab. in pag. inf. corticis Salicis caprææ, Cassel Germaniæ (Riess).

14. **Discosia Vitis** Schulz., Pirotta Funghi Vit. pag. 64. — Pseudo- 3498
peritheciis simplicibus, subsphæricis, superne nigris, duris; basidiis simplicibus, hyalinis; sporulis fusiformi-ovatis, curvulis, triseptatis, ad septa parum constrictis, loculis extimis appendiculâ ciliiformi ornatis, hyalinis, $22 \simeq 5$.

Hab. in ramis Vitis viniferæ in Hungaria.

15. **Discosia strobilina** Lib. Exs. n. 346, Fres. Beitr. p. 68, t. VIII. 3499
f. 7–8. — Peritheciis scutatis, subsuperficialibus, $^1/_5$–$^1/_2$ mill. diam., atris, subcircularibus, levibus, centro brevissime papillulato-pertusis; sporulis tereti-fusoideis, rectiusculis, infra apices setulâ sporulam dimidiam superante, obliquâ utrinque auctis, 3-septatis, non constrictis, 18–20 μ. longis, subhyalinis.

Hab. ad conos dejectos Abietum in Arduennis.

16. **Discosia Passerinii** Sacc. Mich. I. p. 491, F. ital. tab. 435. — 3500
Peritheciis disciformibus, tandem concavis, nigris, minutis; sporulis falcatis, $20 \simeq 4$, 4-locularibus, loculis 2 inter. olivaceis, extimis ciliisque, $20 \simeq ^1/_2$, hyalinis.

Hab. in caule Epilobii Dodonæi, Vigheffio prope Parmam Ital. bor. (Passerini).

17. **Discosia grammita** B. et C. North Amer. Fungi n. 431bis. — Pe- 3501
ritheciis hysteriiformibus opacis; sporulis oblongis, 3-septatis, 20 μ. long. appendicibus terminalibus, acutis.

Hab. in Pæonia arborea putri, New England Amer. bor. (Russel).

18. **Discosia smilacina** De Not. Atti Accad. Tor. 1849, p. 354, f. VI. 3502
— Peritheciis scutiformibus, subsuperficialibus, medio subexcavatis et obsolete pertusis, $^1/_4$ mill. d.; sporulis teretiusculis, subrectis, utrinque obtusiusculis et sub apice setulâ sporulam dimidiam æquante auctis, 3–4-septatis, subhyalinis, $25 \simeq 3$–$3{,}5$.

Hab. in foliis siccis Smilacis asperæ prope Genova Ital.

bor. — An *Discosia maculicola* Gerard (citata in Peck Rep.) in foliis Smilacis rotundifoliæ in America bor. diversa sit, non liquet; sed *D. maculicola* Gerard in Ellis North Amer. Fungi n. 1175 differt.

19. **Discosia Podisomatis** C. et Ellis in Grevillea. — Sparsa; peri- 3503
theciis convexis, minimis, opacis; sporulis cylindraceis, curvulis, triseptatis, 25-28 μ. longis, utrinque aristatis.

Hab. in Podisomate macropode vetusto, New Jersey Amer. bor.

ENTOMOSPORIUM Lév. in Moug. St. Vog. n. 1457, *Morthiera* Fuck. Symb. Myc. p. 382 (Etym. *entoma* insecta et *spora*). — Peritheciа hemisphærico-applanata, astoma, atra (spuria?). Sporulæ cruciato-tetrameræ, nempe didymæ accedentibus 2 loculis lateralibus, omnibus vero setigeris. Basidia mox decidua.

1. **Entomosporium maculatum** Lév. in Moug. St. Vog. n. 1458. — Pe- 3504
ritheciis epiphyllis applanatis, atris, subastomis; sporulis more generis, 4-cellularibus, 18-20 ≃ 12, hyalinis, cellulis lateralibus minutis depressis, stipite filiformi 20 ≃ $^3/_4$, setulis lateralibus prælongis.

Hab. in foliis Piri communis in Gallia. — β. **domesticum** Sacc. Mich. II. p. 115, *Morthiera Mespili* Sacc. M. V. n. 525: sporulis 18 ≃ 8, cellulis lateralibus depressiusculis, stipite 15 ≃ $^3/_4$, setulis lateralibus prælongis. — In foliis Mespili germanicæ in Italia bor. et in Arduennis. — γ. **Cydoniæ** C. et Ellis in Grev. t. 99, f. 3: sporulis 12-15 ≃ 6-7. — In foliis Cydoniæ in America boreali.

2. **Entomosporium Mespili** (DC.) Sacc. Mich. II. p. 115, *E. brachia-* 3505
tum Lév. in Moug. Stirp. Vog. n. 1457, *Morthiera Mespili* Fuck. Symb. Myc. p. 382. — Affinis præcedenti, sed sporulæ 25 ≃ 15, cellulis lateralibus paullo majoribus et rotundioribus, stipite crassiore 20 ≃ 2$^1/_2$; setulis lateralibus brevioribus.

Hab. in foliis Cotoneastri tomentosæ, C. vulgaris, Piri silvestris in Gallia, Helvetia et Germania.

3. **Entomosporium Thümenii** (Cooke) Sacc. *Morthiera Thümenii* Cooke 3506
in Thüm. Myc. Un. n. 895. — Peritheciis numerosis, epiphyllis vel interdum etiam amphigenis, applanatis, orbiculatis, rugulosis, sæpe confluentibus, atris in macula parva, fusca; sporulis illis *Entomosporii Mespili* similibus sed loculis superioribus, 14 ≃ 9, loculis in-

ferioribus 8 μ. longis, ciliis omnibus æquilongis, 9–12 μ. longis, hyalinis.

Hab. ad folia viva Cratægi glandulosæ et Cratægi flavi in Carolina australi (Ravenel), et Cratægi sanguineæ in Sibiria asiatica (Martianoff).

ACTINOTHYRIUM Kunze Myk. Heft. II. p. 81 (Etym. *actin* radius, et *thyreos* scutum, perithecium). — Perithecia dimidiata, clypeata, subsecedentia, non vel vix hiantia, membranacea, margine eximie radiato-fimbriata, atra. Sporulæ filiformes, hamatæ, hyalinæ.

1. **Actinothyrium graminis** Kunze Myk. Heft. p. 81, t. II. f. 3. — 3507
Perithecis sparsis vel gregariis, dimidiatis planis, subcircularibus, centro subumbonatis, margine conspicue radiato-fimbriatis, atris, $^1/_2$–1 mill. diam.; sporulis filiformibus, hamatis, 50 ≃ 1, hyalinis.

Hab. in foliis siccis Moliniæ, Holci, etc. in Germania, Gallia, Italia, Britannia, Belgio.

2. **Actinothyrium cubense** B. et C. Cub. Fungi n. 552. — Perithecis 3508
latissime conicis, quandoque confluentibus e cellulis radiantibus medio compactioribus constructis; basidiis longis; sporulis filiformibus quandoque curvatis.

Hab. in pag. super. foliorum in insula Cuba.

3. **Actinothyrium caulincolum** Schw. Syn. Amer. bor. n. 2178. — Or- 3509
biculatum, satis elevatum, nigro-fuscum subumbonatum, epidermide tectum, margine radianti fibrilluloso; peritheciis sparsis sed numerosis, multo majoribus quam in ceteris speciebus.

Hab. in caulibus, præsertim Eupatorii, Bethlehem Amer. bor.

4. **Actinothyrium Magnoliæ** Schw. Syn. Amer. bor. n. 2177. — Ple- 3510
rumque peritheciis concentrice sitis, tamen sparsis punctiformibus e fusco nigris, nidulantibus in foveolis nervorum in pagina aversa, applanato-convexulis, orbiculato-scutiformibus.

Hab. in aversa pagina foliorum Magnoliæ glaucæ, Philadelphia Amer. bor. — «*Actinothyrio graminis* satis affine, sed in ambitu fere integrum nec tam radiato-fibrosum; hinc potius *Leptothyrium* mihi videtur».

MELOPHIA Sacc. (Etym. *melas* et *ophis* anguis, h. e. *Melasmia* scolecospora), *Melasmia* Lév. p. p. — Perithecia applanato-convexula, dimidiata, molliuscula, atra v. glauco-fusca demum corrugata, astoma v. irregulariter dehiscentia. Sporulæ elongato-serpentiformes, continuæ, hyalinæ. — Est *Melasmia* scolecospora.

1. **Melophia ophiospora** (Lév.) Sacc. *Melasmia ophiospora* Lév. Ann. Sc. nat. 1848, p. 253. — Peritheciis gregariis subseriatis, adnatis, basi applanatis, convexis, levibus, demum depressis corrugatis, intus extusque nigris; sporulis elongatis, continuis, utrinque obtusis, curvatis vel serpentiformibus. 3511

Hab. in cortice Quercus Suberis in Corsica et Gallia meridionali.

2. **Melophia Woodsiana** Sacc. et Berl. — Peritheciis remote sparsis, epiphyllis, subiculo tenui depresso albo filamentoso maculiformi insertis, facile secedentibus convexis, scutatis, astomis, glauco-fuscis, $^1/_5$–$^1/_4$ mill. diam., contextu tenui-membranaceo, olivaceo-fusco, minute sed distincte parenchymatico; sporulis cylindraceis, utrinque obtusiusculis, 30–35 ≃ 1,5, ferri equini vel circuli ad instar arcte convolutis, pluri-nucleolatis, hyalinis; basidiis bacillaribus, 10 ≃ 1, hyalinis fasciculatis suffultis. 3512

Hab. in foliis (phyllodiis) languidis Acaciæ harpophyllæ in Queenslandia australi (Scortechini). — Sporulæ *Trichinam spiralem* optime æmulantur. — Forte novi generis typus, cl. Woodsio de historia naturali Malesiæ optime merito dicatus.

LEPTOSTROMELLA Sacc. Mich. II. p. 632. (Etym. a *Leptostroma*, cui analogum genus). — Perithecia epidermide velata, dein subsuperficialia, elongata, depresso-convexa, subcarbonacea, atra, rimâ plus minus manifestâ longitudinaliter exarata. Sporulæ bacillares vel filiformes, continuæ vel septulatæ, hyalinæ. Basidia bacillaria. — Est hoc genus meo sensu quasi *Leptostroma* sed sporulis bacillaribus ornatum.

1. **Leptostromella hysterioides** (Fr.) Sacc. *Leptostroma hysterioides* Fr. S. M. II. p. 599. — Oblongum, nigrum, varium, centro tumidulo substriatulo secedens; sporulis cylindraceis, curvatis, 20-25 ≃ 2, uniserialiter pluriguttulatis, hyalinis. 3513

Hab. in caulibus languidis vel emortuis Pæoniæ, Dianthi, Cytisi, Peucedani, Cynanchi in Suecia, Germania, Italia, Sibiria. — Var. **graminicolum** De Not. Micr. ital. III. f. 6: peritheciis oblongis, quam typi minoribus, utrinque obtusiusculis, depressis, atris, facile secedentibus, sulcatis; sporulis bacillari-fusoideis, curvis 16-18 μ. longis. In vaginis culmisque Moliniæ cæruleæ in Italia bor. — Forma semper oblonga (elliptica vel elongata), striis longitudinalibus e caule tenuissimis; sed minime undique rugulosum. Color plerumque opacus.

2. **Leptostromella tenuis** Sacc. Mich. II. p. 282 *(Leptostroma)*. — 3514
Peritheciis gregariis, innato-erumpentibus, elongatis, modice depressis, minutis, $^1/_2 \simeq {}^1/_5$, astomis, fuligineo-parenchymaticis; sporulis cylindraceis, curvulis, 20–22 $\simeq 3^1/_2$, hyalinis.

Hab. in caule Lepidii graminifolii, Padova Italiæ bor.

3. **Leptostromella septorioides** Sacc. et Roum. Mich. II. p. 632. — 3515
Peritheciis amphigenis, parallele gregariis, innato-erumpentibus, oblongis, $^3/_4 \simeq {}^1/_3$ mill. d., rimulâ notatis, atris, carbonaceis; sporulis bacillaribus leniter curvis, 40–45 $\simeq {}^3/_5$–1, hyalinis, continuis, basidiis fasciculatis dimidio brevioribus suffultis.

Hab. in foliis aridis graminum (Festucæ?) in Arduennis (Libert).

4. **Leptostromella juncina** (Fr.) Sacc. Mich. II. p. 352, *Leptostroma juncinum* Fr. Syst. Myc. II. p. 598. — Peritheciis planis, elongatis, clypeatis, atro-nitentibus, astomis, rimulâ parum distinctâ exaratis; sporulis cylindraceis, curvulis, 25–30 $\simeq 2$, pluriguttulatis, hyalinis, basidiis brevissimis crassiusculis suffultis. 3516

Hab. in calamis Junci effusi, J. conglomerati etc. in Suecia, Italia, Germania, Gallia, Britannia.

5. **Leptostromella pteridina** Sacc. et Roum. Mich. II. p. 353. — Peritheciis elongatis applanatis, initio epidermide velatis dein subsuperficialibus, $1^1/_2 \simeq {}^1/_2$, nigris, non sulcatis; sporulis filiformi-aciculariboris, 80 $\simeq 1^1/_2$, hyalinis, 5-6-septatis. 3517

Hab. in stipitibus Pteridis aquilinæ, sociâ *Didymellâ Hyphene* (Cooke) in Algeria (Doct. Trabut).

6. **Leptostromella filicina** (B. et C.) Sacc. *Cryptosporium filicinum* B. et C. North Amer. Fung. n. 397. — Nitidum, hysteriiforme; conidiis curvatis, filiformibus; basidiis sporulâ dimidio brevioribus. 3518

Hab. in stipitibus emortuis Filicum, Alabama, Osmundæ cinnamomeæ in Pensylvania.

REPERTORIUM

SPHÆROPSIDEARUM LEPTOSTROMACEARUM

SECUNDUM MATRICES

Obs. A. indicat *Actinothecium*. — Ar. *Actinothyrium*. — D. *Discosia*. — E. *Entomosporium*. — L. *Leptothyrium*. — La. *Leptostroma*. — Lb. *Labrella*. — Le. *Leptostromella*. — M. *Melasmia*. — Me. *Melophia*. — P. *Piggotia*. — Pr. *Pirostoma*. — S. *Sacidium*.

N. 3330 — 3518 citantur 330 — 518

Abies — L. 334. — D. 499.
Acacia — Me. 512.
Acer — L. 351. — M. 390. 391. — La. 401. 402. 444. — D. 485.
Achillea — L. 379.
Aconitum — L. 370. — S. 480.
Acorus — L. 382.
Actea — L. 370. 439.
Ailanthus — L. 348.
Alnus — L. 333. — D. 486.
Angelica — L. 370. — La. 441.
Aralia — D. 845.
Arbutus — M. 394. — D. 488.
Aristolochia — S. 464.
Arundo — La. 417. 418.
Aspidium — La. 434. 435.
Aster — L. 363.

Berberis — M. 395.
Betula — L. 335. — D. 485.
Brassica — L. 365.
Bryonia — S. 478.
Buxus — La. 413.

Camellia — La. 415.
Camphora — D. 485.
Capsicum — Lb. 458.
Caragana — M. 393.
Carex — A. 397. — La. 431. 432.
Carya — D. 491.
Castanea — L. 341.
Célastrus — L. 355.
Cerastium — La. 436.
Cerasus — L. 343.
Cercis — D. 485.
Cedrus — Lb. 454.
Chenopodium — S. 481.
Cichorium — La. 446.
Cimicifuga — L. 370. — La. 436.
Clitorea — L. 362.
Coffea — L. 349.
Coniferæ — L. 361.
Convallaria — La. 426.
Coriaria — L. 352.
Cotoneaster — E. 505.
Corylus — L. 331. 332. — Lb. 453. — D. 485.

Cratægus — La. 413. — D. 485. 487. — E. 506.
Cydonia — E. 504.
Cynanchum — Le. 503.
Cytisus — L. 356. — Me. 513.

Delphinium — La. 436.
Dentaria — L. 380.
Dianthus — Le. 513.
Dipsacus — S. 472.

Epilobium — D. 500.
Erigeron — L. 364.
Eriophorum — La. 431.
Eupatorium — Ar. 508.
Euphorbia — La. 413. 436.

Fagus — L. 336. — D. 485. 487.
Filicaceæ — Le. 518.
Fraxinus — P. 389. — D. 485.

Gaultheria — D. 489.
Glechoma — La. 443.
Gleditschia — S. 469.
Gomphocarpus — S. 471.
Graminaceæ — La. 422. — Le. 515.

Helianthemum — L. 381.
Heracleum — Lb. 457.
Holcus — Ar. 507.
Holoschœnus — L. 384
Hypericum — La. 442.

Ilex — L. 353. — D. 492. 494.
Impatiens — La. 447.
Ipomæa — L. 366.
Iuncus — La. 429. — Le. 516.
Ixerba — S. 470.

Lagerstrœmia — La. 411.
Lamium — La. 437.
Larix — La. 410.
Laurus — D. 485. 488.
Lepidium — Le. 514.
Ligustrum — D. 485.
Lindsæa — L. 386.
Linum — La. 436.
Lonicera — L. 330. — La. 450.
Lunaria — L. 370. 374.
Luzula — L. 383. — La. 429. 430.
Lychnis — L. 367.

Magnolia — D. 485. 486. — Ar. 510.
Malva — La. 445.
Mauritia — S. 477.
Medicago — L. 375.
Mespilus — E. 504.
Molinia — Ar. 507. — Le. 513.
Myrtaceæ — L. 346.

Ononis — S. 479.
Osmunda — La. 434. — Le. 518.

Pæonia — D. 485. 501. — Le. 513.
Passiflora — L. 368.
Peucedanum — Le. 513.
Phillyrea — D. 495.
Phragmites — La. 419. — Pr. 484.
Pinus — L. 334. — La. 404. 407. 408. 409.
Pirus — L. 359. 360. — La. 416. — D. 485. — E. 504. 505.
Platanus — D. 485.
Poa — La. 420.
Podisoma — D. 503.
Polygonatum — Lb. 463.
Polygonum — M. 396.
Populus — L. 337. — D. 485. 487. 490.
Potentilla — L. 369. 381. — La. 436. 452. — Lb. 455.
Prunus — L. 344. — La. 414. — D. 485.
Pteris — L. 385. — La. 433. 434. — D. 485. — Le. 517.

Quercus — L. 338. 339. 340. 347. 369. — La. 412. — D. 485. 487. — Me. 511.

Ranunculus — D. 485.
Rhus — La. 403.
Robinia — D. 485.
Rosa — L. 342. 369. — La. 413. — Lb. 459. — D. 485. 487.

Rubus — L. 345. 354. 369. — La. 399. 400. 440. — S. 475. — D. 485.
Ruscus — La. 448.

Sabal — La. 424.
Salix — P. 388. — La. 404. 413. 436. — S. 465. — D. 485. 497.
Salvia — L. 373.
Sambucus — S. 474.
Saussurea — La. 413.
Scirpus — La. 427.
Scrophularia — L. 380. — La. 437.
Senecio — L. 370.
Sibbaldia — Lb. 456.
Smilax — A. 398. 425. — D. 502.
Sonchus — L. 372.
Sorbus — D. 485.
Spartium — S. 473.
Spiræa — La. 440. — S. 466.
Staphylea — S. 476.
Stellaria — La. 449.
Symplocos — S. 468.

Tanacetum — La. 438.
Teucrium — L. 370. 371. — La. 436.
Thalictrum — L. 376.
Tilia — D. 494.
Tragopyrum — L. 350.
Typha — La. 428.

Ulmus — P. 387. — M. 392.
Urtica — L. 377. — S. 464.

Vitis — L. 357. 358. — D. 485. 498.

Zizania — La. 423.

Fam. 4. **Excipulaceæ** Sacc.

Subcupulatæ Sacc. Mich. II. p. 9.

Perithecia cupuliformia v. patellata v. excipuliformia v. hysterioidea, initio subinde subsphæroidea, sed mox late aperta, membranacea v. carbonacea, atra, erumpentia v. superficialia, glabra v. pilosa.

Clavis analytica generum.

Sect. 1. Hyalosporæ Sacc.

Sporulæ globosæ v. ellipsoideæ v. oblongæ, continuæ, subhyalinæ.

I. Perithecia glabrescentia.

§ Perithecia subcupulata.

A) Perithecia ex hyphis fuscis conglutinatis composita.

Godroniella. Perithecia initio sphæroidea clausa, mox ore integro late aperta, subceracea.

B) Perithecia celluloso-contexta.

Excipula. Perithecia excipuliformia seu cupulata; basidia simplicia.
Heteropatella. Perithecia excipuliformia seu cupulata; basidia ramosa.
Dothichiza. Perithecia initio subglobosa, clausa, dein irregulariter dehiscentia et collabentia.
Lemalis. Perithecia cupulata v. urceolata, carnosula v. membranacea, purpurascentia v. flavida.
Catinula. Perithecia tereti-conica v. cupulata, subcoriacea v. cornea, atra.
Discula. Perithecia disciformia, sæpe imperfecta, epidermide tecta (Est *Discella* amerospora).

§§ Perithecia hysterioidea v. valvatim hiantia.

Sporonema. Perithecia valvatim hiantia; basidia bacillaria, typice ramosa.
Pleococcum. Perithecia valvatim hiantia; basidia obsoleta v. simplicia.
Psilospora. Perithecia late hysterioideo-dehiscentia.

II. Perithecia pilosa v. setosa.

Amerosporium. Sporulæ muticæ; perithecia cupulata.
Dinemasporium. Sporulæ utrinque 1-aristatæ; perithecia cupulata.
Polynema. Sporulæ apice pluri-aristatæ; perithecia cupulata.

Sect. 2. Hyalodidymæ Sacc.

Sporulæ oblongæ v. ovatæ, 1-septatæ, hyalinæ.

Discella. Perithecia discoidea v. patellata, velata, sæpe imperfecta; basidia simplicia.
Pseudopatella. Perithecia globulosa dein crasse patellata, subsuperficialia; basidia ramulosa.

Sect. 3. **Phragmosporæ** Sacc.

Sporulæ oblongæ v. elongatæ, 2-pluriseptatæ, hyalinæ v. fuscidulæ.

Excipulina. Perithecia subcupulata, glabra; sporulæ subinde subrostratæ.
Excipularia. Perithecia subcupulata, setosa.
Pilidium. Perithecia discoideo-inæqualia, glabra, margine dentato-lacera.

Sect. 4. **Scolecosporæ** Sacc.

Sporulæ filiformes, longæ, rarius breviores, continuæ v. septatæ, subinde in articulos dilabentes.

§ Perithecia stromate nullo inserta.

Schizothyrella. Perithecia subhemisphærica, dein laciniato-fissa; sporulæ in articulos cylindricos mox dilabentes.
Protostegia. Perithecia discoidea, initio velata; sporulæ anguste filiformes continuæ.
Oncospora. Perithecia subcupuliformia, erumpentia; sporulæ tereti-elongatæ, continuæ hamatæ.

§§ Perithecia stromate sclerotioideo v. cenangioideo inserta.

Ephelis. Perithecia pezizoidea stromate effuso sclerotiaceo vel cenangioideo suffulta.

GODRONIELLA Karst. Symb. myc. Fenn. XV. p. 158 (Etym. a *Godronia*, cui habitu affine genus). — Perithecia superficialia, sphæroidea, clausa, mox apice ore integro aperta, ex hyphis fuscescentibus conglutinatis composita, atra, glabra, subceracea, sicca subcornea. Sporulæ elongatæ, continuæ, hyalinæ, basidiis filiformibus ramosis suffultæ.

1. **Godroniella juncigena** Karst. Symb. myc. Fenn. XV. pag. 158. 3519
Excipula juncigena Karst. Hedw. 1884, p. 5. — Peritheciis laxe gregariis, subsphæroideis, glabris, atris, disco minuto concolore, 0,5–0,8 mill. diam.; sporulis elongatis utrinque obtusiusculis, rectis v. lenissime curvulis, 8–14 ≃ 2; basidiis ramosis, 30 ≃ 2.
Hab. ad culmos siccos Junci conglomerati prope Aboam Fenniæ.

EXCIPULA Fr. Syst. Myc. II. p. 190 et 596 et Summa V. Scand. p. 403, emend. (Etym. ab *excipula*, ob perithecia excipuliformia). — Perithecia innato-erumpentia excipuliformia v. cupulata, membrana-

cea v. subcoriacea, celluloso-contexta, atra, glabra, ore integro orbiculari. Sporulæ oblongæ v. elongatæ, continuæ, hyalinæ, varie stipitatæ. — Genus, initio valde heteroclitum, nunc merito in plura divisum. Species glabras phragmosporas ad *Excipulinam* duxi; hirtas amerosporas ad *Amerosporium*, hirtas phragmosporas ad *Excipulariam*. Maltæ vero species restant, ob ignotam fructificationem, omnino dubiæ. *Excipula* Fuck. est typice ascigera, hinc prorsus diversa.

I. *Genuinæ*: sporulis muticis.

1. **Excipula erumpens** Berk. North Amer. Fungi n. 452. — Congesta 3520
erumpens glabra: sporulis curvulis breviter apiculatis, 2-4-nucleatis, 15 μ. longis.

Hab. in caule Phytolaccæ in Pensylvania (Michener). — β. **subhispida** Cooke in Grevillea: peritheciis hispidulis. In caule Phytolaccæ, New Jersey Amer. bor..

2. **Excipula subcalva** Ell. et Everh. Torr. Bot. Cl. 1884, p. 73. — 3521
Peritheciis tenuibus, substriatis, 150-200 μ. diam., apice apertis, margine (in sicco) incurvo, extus inæqualibus v. rugulosis ob cellulas elongatas, brunneas prominulas; sporulis oblongo-cylindraceis, minutissimis, 3-4 = 0,5-0,7.

Hab. in foliis Quercus obtusilobæ, Newfield N. J. in America boreali.

3. **Excipula Spirææ** Thüm. Pilzfl. Sibir. n. 674. — Peritheciis am- 3522
phigenis, conico-elevatis, sparsis aut subgregariis, nitido-atris, nebuloso marginatis; sporulis fusiformibus, curvatis, utrinque truncatulis, continuis, pluriguttulatis, hyalinis, 26-30 = 4.

Hab. ad folia viva Spirææ thalictroidis in campis siccis arenosis pr. Minussinsk Sibiriæ. — Species, teste auctore, dubia.

4. **Excipula dispersa** Lév. Ann. Sc. nat. 1846, p. 273. — Perithe- 3523
ciis sparsis globosis nudis intus extusque nigris, ore minuto demum ampliato; sporulis subfusiformibus, 2-guttatis, subhyalinis.

Hab. in foliis Caricis plantagineæ in horto botanico parisiensi in Gallia.

5. **Excipula globosa** Lév. Ann. Sc. nat. 1846, p. 273. — Peritheciis 3524
epiphyllis, gregariis, discretis, globosis, nudis, nigris, ore obtuso aperto; sporulis fusoideo-elongatis curvatis utrinque acuminatis, subhyalinis.

Hab. in foliis Glycines in Guyana Batava.

II. *Melanophœa*: sporulis utrinque fasciculato-appendiculatis.

6. **Excipula melanophæa** Fr. Syst. myc. II. p. 199. *Peziza melanophœa* Kunze, *Phlyctidium melanophœum* Wallr. Fl. cr. n. 2324. — Peritheciis innato-erumpentibus, atris, primum clausis, convexis, dein in discum concavum dilatatum reclusis; sporulis anguste fusiformibus, curvatis, utrinque appendiculis fasciculatis subtilissimis auctis. 3525

Hab. ad squamas conorum Abietis excelsæ in Thuringia et Rhenogovia.

III. *Dubiæ*: sporulis ignotis.

7. **Excipula petiolicola** Fuck. Symb. Myc. pag. 400. — Peritheciis sparsis, minutis, hemisphæricis oblongisve, siccis cupulatis, atris. 3526

Hab. in petiolis foliorum Populi tremulæ in Rhenogovia et Tiliæ in Britannia.

8. **Excipula gregaria** Fr. et Kunze in Linnæa V. p. 552. — Innata; peritheciis minimis, punctiformibus dimidiatis, nigris dein pezizoideo-apertis obliteratisque, disco fusco-pallescente. 3527

Hab. ad petiolos Caricæ Papayæ in ins. Madeira. — In macula lata determinata eximie gregaria et sæpius concentrice disposita.

9. **Excipula sphæroides** (Pers.) Fr. Syst. Myc. II. p. 191 (sect. *Cenangiii*), *Xyloma sphæroides* Pers. Syn. p. 106, *Phlyctidium sphæroides* (Pers.) Wallr. Fl. cr. n. 2322. — Peritheciis innato-superficialibus hypophyllis, punctiformibus atris depresso-urceolaribus, margine inflexo, disco pallido. 3528

Hab. ad folia decidua et putrescentia Salicis capreæ in Germania, Gallia. — Vilis et dubia species, teste Wallroth.

10. **Excipula ulmicola** Schw. Syn. Amer. bor. n. 2126. — In pagina superiore efficit maculas inderminatas late expansas, in ambitu subefiguratas cinerescentes, fusco-marginatas, margine fusco lato; his copiose immersa sunt perithecia, excipuloidea, punctiformia, nigra, centro depresso et quasi cinerescente. 3529

Hab. rarior in foliis dejectis Ulmi fulvæ, Bethlehem Americæ borealis.

11. **Excipula viticola** Schw. Syn. Amer. bor. n. 2125. — Minutissima, punctiformis, sparsa, aterrima, demum fere omnino aperta, disco candido. 3530

Hab. rarior in foliis Vitis æstivalis, pagina aversa, Bethlehem Amer. bor.

12. **Excipula glandicola** Schw. Syn. Amer. bor. n. 2124. — Nuda, superficialiter adnata, orbiculata, aggregata et interdum confluens; peritheciis singulis applanatis in ambitu manifestim marginatis, atronitentibus plicatis; ore centrali subelevato, pezizoideo-aperto, rotundo. 3531

Hab. rarior ad basin glandium quercinarum putrescentium, Bethlehem Amer. bor.

13. **Excipula nitidula** Schw. Syn. Amer bor. n. 2127. — Sparsa, minuta, superficialis; peritheciis subglobosis, nigris, glabriusculis, extus nitidulis; disco concavo, exalbido, non turgido. 3532

Hab. in ligno Liriodendri Tulipiferæ ætate cinerescente denudato, Bethlehem Amer. bor.

14. **Excipula epidermidis** Schw. Syn. Amer. bor. n. 2121. — Innato-erumpens, demum libera; peritheciis cupuliformibus, minutis, sparsis, extus nigris, rugosis, margine sublacerato, orbiculato-subrotundo; disco subaperto, luteo-pallido; minuta. 3533

Hab. in epidermide secedenti Spirææ opulifoliæ, Bethlehem Amer. bor., raro.

15. **Excipula Strobi** (Pers.) Fr. S. M. II. p. 190, *Peziza Pini-Strobi* Pers. Myc. eur. I. p. 326. — Peritheciis cupuliformibus profunde excavatis erumpentibus, minutis, opacis, nigris. 3534

Hab. in ramis Pini Strobi in Germania.

16. **Excipula Empetri** Fr. Syst. Myc. II. p. 190. — Peritheciis erumpenti-superficialibus epiphyllis punctiformibus, opacis atris, demum in discum atrum hiantibus. 3535

Hab. ad folia Empetri in Germania et Suecia. — Primo convexo-conica, dein cylindrica, demum obovato-cylindrica, levis, hieme aperta margine inflexo.

17. **Excipula nervisequia** (Pers.) Fr. Elench. II. p. 147. *Peziza nervisequia* Pers. Myc. eur. I. p. 308. — Peritheciis sphæricis atris, demum cupulæformibus, innatis nervo foliorum in filum nigrum demum liberatum abeunti. 3536

Hab. in foliis languidis Plantaginis lanceolatæ in Germania, Gallia, Italia. — Marcescentibus foliis *Plantaginis lanceolatæ*, nervi, subinde et venæ, turgescere et nigri evadere incipiunt, folio vero adhuc exclusa, e quibus erumpunt perithecia subsphærica, inæqualia, astoma, opaca, atra, puncto non majora: dein et nervi erumpunt sistentes illud «subiculum induratum li-

neare» in quo perithecia seriata, cujus mentionem fecit Persoon l. c.; tandem vero prorsus liberantur sistuntque filum prorsus rhizomorphoideum, simplex. «Cum hucusque specimina sterilia observare contigerit, nil certi de hac specie abnormi statuere licet.»

18. **Excipula Stellariæ** Lasch in Flora 1849, p. 86, Bot. Zeit. 1849, p. 294. — Erumpens, ruguloso-fibrillosa, margine inflexo subplicato, disco oblongo, luteo-pallescente. 3537

Hab. in caulibus Stellariæ gramineæ pr. Driesen Germaniæ.

19. **Excipula Galii** Lasch in Kl. Herb. myc. n. 678, Bot. Zeit. 1845, p. 68. Fuck. Symb. myc. p. 401 et App. — Erumpens, elliptica v. oblonga rugulosa, atra, disco albido. 3538

Hab. in caulibus emortuis Galii Molluginis et G. silvatici pr. Driesen Germaniæ et in Rhenogovia. — Sec. Fuck. asci nondum maturi observati; verisimillime tamen est discomyces.

20. **Excipula levigata** Fr. Elench. II. p. 148. *Peziza levigata* Fr. S. M. II. p. 153. *Heterosphæria levigata* Fr. Summa p. 365. — Innata, orbicularis, tenuis, levis, atra, margine tenui, sparsa vel gregaria, cauli adpressa, junior sphæriæformis, dein applanata subdifformis, integerrima. 3539

Hab. in caulibus herbarum, e. g. Verbasci Thapsi in Gallia, Suecia.

21. **Excipula integerrima** Fr. S. M. II. p. 596. — Orbicularis, tumida, nigra, disco aperto lutescente. 3540

Hab. in caulibus in Suecia.

22. **Excipula Liliorum** (Schw.) Fr. S. M. II. p. 597. *Xyloma Liliorum* Schw. Carol. n. 261. — Innata, oblonga, subdifformis, atronitens, orificio centrali pezizoideo. 3541

Hab. in caulibus Hemerocallidis etc. in America boreali. — Tenuis, 1–3 lin. longa. Abit ad *Leptostromata*.

23. **Excipula majuscula** Schw. Syn. Amer. bor. n. 2123. — Epidermide tecta, insidens fibrillulis indistinctis repentibus vix radiantibus, lineas longa, ovato-acuminata, confluens, nigra; in centro depressa, demum ore rotundo aperta. 3542

Hab. in caulibus dejectis Collinsoniæ, Bethlehem Americæ borealis. — Affinis *E. rumicincolæ*.

24. **Excipula rumicincola** Schw. Syn. Amer. bor. n. 2122. — Epidermide plerumque tecta, imposita fibrillulis radiantibus, oblonga, utrinque acuminata, nigra; centro ore elevato aperto rotundo aut orbiculato. 3543

Hab. in caulibus emortuis Rumicis verticillati, Bethlehem Amer. bor.

25. **Excipula Typhæ** Lasch in Kl. Herb. myc. n. 677, Bot. Zeit. 1845, p. 67. — Subrotunda vel oblonga, innata, nigra e plano concava, ore integerrimo. 3544

Hab. in foliis Typhæ latifoliæ pr. Driesen Germaniæ.

26. **Excipula aspera** Fr. S. M. II. p. 597, Sacc. Mich. II. p. 83. — Peritheciis excipuliformibus, sphæricis, costatis, margine setulis conglutinatis asperulis, ore subconnivente; disco ex paraphysibus filiformibus constante; ascis nullis v. immaturis. 3545

Hab. in basi caulium Osmundæ regalis in Vogesis et in Belgio. — «Probabiliter *Trichopezizæ* species ex vicinia *T. Pteridis* (A. S.)».

IV. *Species nomine tantum mihi cognitæ.*

27. **Excipula Fagi** Kirchn. Lotos 1856, p. 204. — In Bohemia meridionali. 3546

28. **Excipula Gallarum** Kirchn. Lotos 1856, p. 204. — In Bohemia meridionali. 3547

29. **Excipula Impatientis** Kirchn. Lotos 1856, p. 204. — In Bohemia meridionali. 3548

30. **Excipula patelliformis** Kirchn. Lotos 1856, p. 204. — In Bohemia meridionali. 3549

HETEROPATELLA Fuck. Symb. myc. App. II. p. 54 (Etym. *heteros* diversus v. spurius, et *patella*). — Perithecia sessilia, ventricosa, ore contracto, laciniato, coriacea; discus concavus, carnosus, discolor. Sporulæ in sporophororum ramosorum apicibus, pedicellatæ, fusiformes, simplices, apice longe appendiculatæ, hyalinæ.

1. **Heteropatella lacera** Fuck. Symb. App. II. p. 54 fig. 31. — Peritheciis superficialibus, laxe gregariis sparsisve, ½–1 mill. latis, ventricosis, levibus, glaberrimis, atro-fuscis, coriaceis, ore contracto, in lacinias plerumque 6, subregulares, triangulares, patentes, parum pallidiores dehiscentibus, disco concavo, carnoso, sordido, siccis clausis; sporophoris densissime verticaliter dispositis, ramosis, apice sporulas solitarias gerentibus; sporulis fusiformibus, curvatis, continuis multiguttulatis, hyalinis, pedicellatis, 26 ≃ 4 apice appendiculo longo, filiformi, curvato, 26–30 μ. longo, pedicello plerumque 16 μ. longo abrupte insertis. 3550

Hab. in caulibus siccis putridis Linariæ vulgaris pr. Œ-

strich Rhenogoviæ. — f. **umbilicata** (Pers. sub *Peziza*) Sacc. Mich. II. p. 116: sporulis 25 ≃ 3, utrinque cuspidatis, falcatis, in basidio tereti subramoso pleurogenis. In caulibus Gentianæ in Vogesis. — f. **Linariæ** (*Peziza Linariæ* Rabh.). In caulibus Linariæ in Gallia. — f. **Dauci**. In ejusdem caulibus in Gallia.

2. **Heteropatella palustris** (Brun.) Sacc. in Mich. II. p. 630, *Heterosphæria palustris* Brunaud in Roum. Rev. Mycol. — Peritheciis globoso-depressis, astomis, dein ample umbilicatis, atronitidulis, $^1/_2$-$^3/_4$ mill. diam., contextu parenchymatico solidiusculo; basidiis filiformibus fasciculatis 20-30 ≃ 1, breve ramulosis; sporulis fusoideis curvulis utrinque acutiusculis, biguttulatis, 8-10 ≃ 1,5-2, hyalinis. 3551

Hab. in caulibus siccis Euphorbiæ palustris in Gallia prope Saintes (Brunaud).

DOTHICHIZA Lib. in Herb. Roum. et Speg. Reliq. Lib. I. n. 627. (Etym. a *Dothidea*, ad quam habitu interdum accedit). — Peritheccia erumpentia subrotunda, discreta primo clausa, demum irregulariter dehiscentia, subcupulata. Sporulæ oblongæ vel teretiusculæ, continuæ, hyalinæ. — Facillime hoc genus sistit spermogonium *Cenangiorum*.

1. **Dothichiza Padi** Sacc. et Roum. Misc. mycol. F. Gall. n. 2251. — Peritheciis subsuperficialibus, gregariis, applanatis, dein pezizoideo-depressis, atris, subcoriaceis, $^1/_3$-$^1/_2$ mill. diam.; sporulis oblongis, 6 ≃ 1, hyalinis, basidiis varie ramosis cylindraceis 4-6-plo longioribus suffultis. 3552

Hab. in ramis corticatis Pruni Padi, Malmedy in Arduennis (Libert). — Verisimiliter status spermogonicus *Cenangii Padi* Fr.

2. **Dothichiza Sorbi** Lib. in Roum. et Speg. Reliq. Lib. I. 627. *Micropera Sorbi* Thüm. in Hedwigia. — Peritheciis numerosis, dense gregariis sed semper solitariis et nunquam confluentibus, sub epidermide nidulantibus, applanatis, erumpentibus, orbiculatis vel oblongis, primo clausis demum epidermide disrumpente regulariter cinctis hiantibusque, nigris; sporulis cylindricis, subrectis vel arcuatis, utrinque subtruncatis, simplicibus, enucleatis, hyalinis, 3-4 ≃ 1-1,5. 3553

Hab. in cortice Sorbi Aucupariæ prope Malmedy in Arduennis.

3. **Dothichiza Passeriniana** Sacc. et Roum. Reliq. myc. Lib. IV. n. 119. — Peritheciis cæspitoso-erumpentibus, collabascendo scutel- 3554

latis, atris, $^1/_4$ mill. diam.; sporulis cylindraceis, curvulis, 8–10 ≃ 2–2,5, hyalinis; basidiis (paraphysibus?) filiformibus, septatis, hyalinis, 40–50 ≃ 2.

Hab. in cortice ramorum Rhamni Alaterni pr. Malmedy in Arduennis.

4. **Dothichiza populea** Sacc. et Br. — Peritheciis laxe gregariis, epidermide velatis, dein erumpentibus, subcoriaceis, atris, globoso-depressis $^3/_4$–1 mill. diam., mox irregulariter hiantibus et cupulari-apertis; sporulis globoso-ellipsoideis, subinde minute apiculatis, 10–12 ≃ 8–10, hyalinis; basidiis..... non observatis. 3555

Hab. in ramis emortuis Populi pr. Troyes Galliæ.

5. **Dothichiza populina** Sacc. *Cenangii populini* spermogonium Fuck. Symb. p. 268. — Peritheciis erumpentibus, gregariis, numerosis, minutis, orbicularibus, atris, vegetis apertis, disco fuliginoso, margine elevato, aspero, atro cinctis, siccis plerumque rima longitudinali, simplici subclausis; sporulis ovatis, numerosis, minutis, hyalinis, 8 ≃ 3. 3556

Hab. in ramis corticatis Populi tremulæ et P. pyramidalis in Rhenogovia.

6. **Dothichiza ferruginosa** Sacc. *Cenangii ferruginosi* spermogonium Fuck. Symb. p. 269. — Peritheciis gregariis, erumpentibus, minutis, substipitatis, orbicularibus, planis umbilicatisque, nigris, primo clausis, demum laceratis; sporulis ovato-oblongis, continuis, hyalinis, 8 ≃ 4. 3557

Hab. in ramis corticatis Pini silvestris in Rhenogovia.

LEMALIS Fr. Summa p. 360, non Mont. Ann. Sc. nat. 1840 p. 207 (Etym. *leme* lippitudo). — Perithecia seu receptacula cupulata v. suburceolata, carnosula v. membranacea, marginata, cinereo-purpurascentia v. aurea. Sporulæ globulosæ v. oblongæ. — Ad *Nectrioideas* accedit.

1. **Lemalis Alismatis** (Pers.) Fr. l. c. *Peziza Alismatis* Pers. Myc. eur. I. p. 301. — Minuta, glabra, sessilis, carnosula ex cinereo subpurpurascens; peritheciis cupulatis, depressis, margine subcomplanatis; disco passim pulvere rubello tecto; sporulis..... 3558

Hab. in caulibus siccis Alismatis Plantaginis præteriti anni, in aqua adhuc persistentibus, in Germania et Scandinavia.

2. **Lemalis aurea** (Lév.) Sacc. *Catinula aurea* Lév. Ann. Sc. nat. 1848, p. 248. — Peritheciis sparsis v. gregariis cylindraceo-urceolatis, 3559

subminutis, membranaceis, aureis late marginato-apertis; sporulis globosis, concoloribus; basidiis parallelis.

Hab. ad truncos vetustos Pinorum pr. Paris et in Gallia meridionali. — Fungillus exsiccatione habitum *Calloriæ chrysocomæ* sumit. — An ergo ad *Nectrioideas* referenda species? An *Godroniellæ* affinior?

CATINULA Lév. Ann. Sc. nat. 1848, p. 247 (Etym. *catinus* ob formam perithecii). — Perithecia globoso-ovata v. teretiuscula, membranaceo-coriacea, atra, solidiuscula vel madore carnosula, apice ore lato hiantia, disco concaviusculo, sæpe leticolore. Sporulæ globosæ v. oblongæ continuæ, subhyalinæ. — Species tenuiores forte cum gen. *Godrionella* aptius conveniunt.

1. **Catinula turgida** (Fr.) Desm. Exs. n. 1818, 20 Not. p. 20, Sacc. Mich. II. p. 573. *Excipula turgida* Fr. S. M. II. p. 189, *Tympanis turgida* (Fr.) Wallr. Fl. cr. p. 424. — Peritheciis teretiobconicis, subinde compressis, gregariis, nigris, ore amplo apertis, solidiusculis, nitide marginatis, contextu parallele celluloso, olivaceo-fusco, disco griseo; sporulis oblongo-ellipsoideis, utrinque rotundatis, 18–20 ≃ 8–9 guttatis, hyalinis v. flavidulis; basidiis teretiusculis, 16–18 ≃ 3–4, hyalinis. 3560

Hab. in ramis corticatis Coryli Avellanæ in Gallia, Fennia, Germania, Italia et America bor. — Sistit pycnidium *Cenangii Coryli* Corda.

2. **Catinula Mangiferæ** (Mont.) Sacc. *Lemalis Mangiferæ* Mont. Cent. II. n. 20, in Ann. Sc. nat. 1840, p. 207. — Epi-rarissime hypophylla, gregaria, erumpens; receptaculo cylindrico crasso aut basi incrassata ventricoso, coriaceo, cinerescente, disco terminali concaviusculo, humido plicato-rugoso pulverulento-nigro; ascis nullis; sporulis (quorum morphosis adhuc latet) nudis fusiformi-acuminatis. 3561

Hab. in foliis vivis Mangiferæ in Guyana (Leprieur).

3. **Catinula melaleuca** Lév. Ann. Sc. nat. 1848, p. 248. — Peritheciis gregariis, minutis, subcorneis, globoso-conicis, levibus, nigris ore constrictis, madore late apertis, intus albis; sporulis ovoideis continuis, subhyalinis. 3562

Hab. in truncis decorticatis Juglandis regiæ prope Parisios Galliæ.

4. **Catinula leucophthalma** Lév. Ann. Sc. nat. 1848, p. 248. — Peri- 3563

theciis inter fibras lignosas erumpentibus sessilibus cupulatis, corneis, nigris, late apertis; sporulis globulosis, hyalinis.

Hab. ad ramos decorticatos in silva Boulogne prope Parisios Galliæ.

DISCULA Sacc. (Etym. a *Discella*, cui analogum genus), *Discella* Auct. p. p. — Perithecia disciformi-patellata, sæpe imperfecta et veluti e matrice mutatâ formata, epidermide, sæpe demum laciniatim fissa, velata. Sporulæ ellipsoideæ, oblongæ v. teretiusculæ, continuæ, hyalinæ, — Species aliquæ hinc *Oncosporæ*, illinc *Pleococco* propinquæ.

I. *Ramicolæ in Dicotyledoneis arboreis.*

1. **Discula Platani** (Peck) Sacc. *Discella Platani* Peck Rep. on the St. Mus. N. Y. *Discella Platani* Oud. Aanw. 1876-77, p. 9. — Pustulis minutis; peritheciis erumpentibus, pallidis; sporulis subellipsoideis v. oblongis, levibus, deciduis, hyalinis, 8-14 ≃ 3,5-6. 3564

Hab. in ramis Platani occidentalis, Bethlehem Americæ borealis, et Platani orientalis prope Amsterdam in Hollandia (Oudemans). — Basidia raro sporulis adhærentia manent, nec ita granulosa ut in *D. platyspora*. — Species Oudemansii ab illa Peckii non diversa videtur.

2. **Discula platyspora** (B. et Br.) Sacc. *Discella platyspora* B. et Br. Ann. N. H. n. 428. — Peritheciis minutis, superne deficientibus, pustulas tumidulas formantibus; sporulis oblongis, obtusis, continuis, granulosis, 30-35 ≃ 12; basidiis brevibus, obtusis, simplicibus, interdum cum sporula decedentibus. 3565

Hab. in ramis emortuis Platani, Batheaston Britanniæ. — Plasma granulosum ita efficit, ut primo obtutu episporium quoque extus granulosum videatur.

3. **Discula Magnoliæ** (B. et C.) Sacc. *Discella Magnoliæ* B. et C. North Amer. Fungi n. 468. — Pustulis sparsis cuticula tectis, apice tantum nudis; sporulis oblongis, 7-8 ≃ 2, basidiis sporulam æquantibus. 3566

Hab. in ramis Magnoliæ cordatæ in montibus Virginiæ Americæ borealis.

4. **Discula microspora** (B. et C.) Sacc. *Discella microspora* B. et C. North Amer. Fungi n. 470. — Pustulis parvis elongatis depressis cuticula tectis dein medio erumpentibus; sporulis brevibus subellipticis, 7-8 ≃ 3-3,3. 3567

Hab. in ramis Ceanothi americanæ in Pensylvania (Michener).

5. **Discula quercina** (Cooke) Sacc. *Discella quercina* Cooke, Grev. XII, p. 23. — Sparsa, discoidea, primo cortice tecta, demum laciniatim erumpens, disco atro; sporulis elongato-ellipticis, hyalinis, 15 ≃ 4. 3568

Hab. in cortice Quercus aquaticæ in Carolina inferiore Americæ borealis.

6. **Discula Citri** (Cooke) Sacc. *Discella Citri* Cooke Grev. XII. p. 23. — Sparsa, rotundata, elliptica vel elongata, fusca, primo epidermide tecta demum lacerata; sporulis elongato-ellipticis, 16–17 ≃ 4,5, hyalinis. 3569

Hab. in ramis Citri in Carolina infer. Amer. bor.

7. **Discula macrosperma** (Peck) Sacc. *Discella macrosperma* Peck Rep. on the St. Mus. N. J. — Peritheciis obsoletis; sporulis oblongis, rectis curvulisve, interdum uno apice attenuatis, hyalinis, 34–40 ≃ 10, intus granulosis. 3570

Hab. in cortice emortuo Salicis, North Greenbush Americæ borealis.

8. **Discula microsperma** (B. et Br.) Sacc. *Discella microsperma* B. et Br. Ann. N. H. n. 429, t. 12, f. 8, e. — Peritheciis nigris, sub vitro pallidioribus centro sæpe apertis; sporulis minutis, oblongis, continuis, dein sæpe expulsis. 3571

Hab. in ramis emortuis Salicis in Britannia, Belgio et Germania. — A *Discella carbonacea,* cui affinis, differt in primis sporulis multoties minoribus et continuis pustulisque sæpe majoribus.

9. **Discula rugosa** (B. et C.) Sacc. *Discella rugosa* B. et C. North Amer. Fungi n. 467. — Pustulis sparsis curvulis subhysteriiformibus leniter curvis et hinc inde ostiolis prominulis punctatis; sporulis oblongis utrinque attenuatis, 12–14 μ. longis, endochromate utrinque retracto, basidiis sporulam æquantibus. 3572

Hab. in ramis Aceris rubri in Pensylvania (Michener).

10. **Discula obscura** (B. et C.) Sacc. *Discella obscura* B. et C. North Amer. Fungi n. 469. — Pustulis minutis irregularibus depressis, sparsis fuscis, epidermide pellucida tectis; sporulis oblongis, 8–15 ≃ 3. 3573

Hab. in ramis Aceris striati, Massachusetts Amer. bor.

11. **Discula Peckiana** Sacc. *Discella discoidea* C. et Peck Rep. on the St. Mus. New York, t. 1, fig. 31–37. — Erumpens, discoidea, madore rubescens, uda nigra vel nigricans, epidermide stellato- 3574

fissâ cincta; peritheciis supra deficientibus; sporulis copiosis, oblongis vel ellipsoideis, hyalinis, 20–30 μ. longis, intus granulosis; basidiis longis, furcatis vel simplicibus, sursum clavulatis.

Hab. in ramis emortuis Carpini americanæ, Greenbush Americæ borealis.

12. **Discula Kalmiæ** (Peck) Sacc. *Discella Kalmiæ* Peck Rep. on the St. Mus. N. Y. — Pustulis minutis erumpentibus, denique nigricantibus; peritheciis superne deficientibus et subinde excipuliformibus; sporulis oblongo-obovatis, interdum curvulis, hyalinis, 10–15 μ. longis. 3575

Hab. in ramis Kalmiæ angustifoliæ, Sandlake Amer. bor.

13. **Discula lignicola** (C.) Sacc. *Discella lignicola* Cooke in Grevillea. — Sparsa, erumpens; peritheciis punctiformibus, atris, demum apertis; disco fuligineo; sporulis cylindraceis, hyalinis, 20 ≃ 3,5. 3576

Hab. in ligno denudato, Dunedin Australiæ.

14. **Discula variabilis** (Ell.) Sacc. *Discella variabilis* Ell. Bot. Amer. Gaz. — Peritheciis orbiculari-oblongis vel hysterioideis, nigris, irregulariter laciniatim hiantibus discumque pallidum v. nigricantem revelantibus; sporulis ellipsoideo-oblongis, hyalinis, 7–10 ≃ 4. 3577

Hab. in ligno decorticato, Vermont Amer. bor. (C. G. Pringle). — Habitus nunc *Phacidii*, nunc *Hysterii*. Perithecia sæpe inter fibras ligneas nidulantia.

II. *Caulicolæ et fructigenæ.*

15. **Discula olivacea** (C. et H.) Sacc. *Discella olivacea* C. et Harkn. in Grev. 1880 p. 6. — Sparsa, atro-olivacea, cupuliformis, ½ mill. diam.; sporulis ellipticis, utrinque subattenuatis, olivaceis, integris, 14 ≃ 7. 3578

Hab. in caule Urticæ (?) in California Amer. bor. — «An *Myrothecium?*».

16. **Discula Darlingtoniæ** (Thüm.) Sacc. *Discella Darlingtoniæ* Thüm. F. Lusitan. n. 318. — Peritheciis dense gregariis, superficiali-insidentibus, disciformi-depressis, minutis, opaco-atris, cito expallescentibus; sporulis numerosis, cylindrico-ellipsoideis, utrinque rotundatis, simplicibus, intus homogeneo-grumulosis, 16–18 ≃ 6–7 pellucidis, hyalinis; basidiis brevibus, subrectis, hyalinis. 3579

Hab. in ramulis emortuis Darlingtoniæ glomeratæ in horto botanico, Coimbra Lusitaniæ (Moller).

17. **Discula effusa** (B. et Br.) Sacc. *Discella effusa* B. et Br. North 3580

Am. Fungi n. 466. — Pustulis punctiformibus stratum nigrum efformantibus; sporulis oblongis, angustis, 20 ≃ 4, enucleatis.

Hab. in fructibus putrescentibus Piri et Mali in Pensylvania.

18. **Discula Leguminum** (C.) Sacc. *Discella leguminum* Cooke in Rav. Fung. Amer. n. 152. — Pustulis punctiformibus, demum confluentibus, in maculis irregularibus dispositis; sporulis ellipticis, hyalinis, utrinque obtusis, 12–15 ≃ 6. 3581

Hab. in leguminibus Prosopidis, Galveston, Texas Amer. bor. — An potius *Glœosporium?*

19. **Discula tenuispora** (C. et H.) Sacc. *Discella tenuispora* Cooke et Harkn. in Grev. 1880, p. 6. — Sparsa, atro-viridis, punctiformis, applanata, margine leniter elevato, $^1/_4$–$^1/_3$ mill. diam.; sporulis rectis, cylindraceis, obtusis, hyalinis, 20 ≃ 2,5. 3582

Hab. in calamis Junci in California Amer. bor.

III. *In Monocotyledoneis.*

20. **Discula anomala** (C.) Sacc. *Discella anomala* Cooke in Grevillea. — Pustulis sparsis, orbicularibus, atris, epidermide tectis; sporulis fusiformibus, endochromate bipartito, hyalinis, 70 ≃ 10. 3583

Hab. in foliis Yuccæ Draconis, New Jersey Amer. bor. — Habitus *Discellæ*, sporulæ vero facie *Bactridii*. « An potius *Stagonosporæ macrosporæ* (D. et M.) Sacc. affinior? ».

SPORONEMA Desm. XIV. Not. p. 182 (1847) (Etym. *spora* et *nema* fium seu basidium), *Clinterium* Fr. Summa pag. 418 (1849). — Perithecia epidermide tecta, dein erumpentia, initio clausa dein a centro versus ambitum in lacinias plures dehiscentia. Nucleus discoideus molliusculus, sæpe discolor. Sporulæ ovoideæ v. cylindraceæ, hyalinæ, continuæ. Basidia filiformia, sæpius ramosa. — Videretur *Phacidium* basidiosporum.

1. **Sporonema phacidioides** Desm. Ann. Sc. nat. 1847, VIII. p. 182. — Peritheciis copiosis, minutis, subrotundis, applanatis, atro-brunneis, in lacinias 4–5 inæquales, obtusas mox dehiscentibus; disco planiusculo, cinnamomeo; sporulis ovoideo-oblongis, 5 μ. longis binucleatis. 3584

Hab. in foliis Medicaginis maculatæ in Gallia et Britannia.

2. **Sporonema hiemale** Desm. 19 Not. p. 25. — Hypophyllum, minutum, sparsum vel laxe gregarium, rotundatum aut oblongum, in lacinias 2–5 irregulares (epidermicas) dehiscens; disco convexo pallido vel 3585

argillaceo; basidiis simplicibus vel dichotomis, septatis, in catenas sporularum abeuntibus; sporulis numerosissimis, hyalinis, rectis, suboblongis, truncatis, 6 ≃ 2.

Hab. in foliis semiputridis Quercus in Gallia.

3. **Sporonema provinciale** Mont. VIII. Cent. pl. Cell. p. 304. — Peritheciis amphigenis, gregariis, punctiformibus, sinuato-subrotundis, deplanatis, atris, madidis convexis, siccitate cupulari-collapsis, irregulariter radiatim dehiscentibus; sporulis lineari-oblongis, rectis, 5 ≃ 1, hyalinis; basidiis erectis, fasciculatis, 40 ≃ 5, e basi œdematosa ramosissimis, ramis filiformibus, 1 μ. cr. 3586

Hab. in foliis emortuis delapsisque Mespili germanicæ in Gallo-provincia (Castagne).

4. **Sporonema Guepinii** (Mont.) Sacc. *Clinterium Guepinii* Mont. Pl. Cell. Cent. VIII. p. 306. — Peritheciis amphigenis erumpenti-liberatis, fusco-brunneis, dein collapsis, subcupularibus, centro mamillatis, madidis hemisphærico-complanatis, umbonatis, tandem rimose dehiscentibus; nucleo hyalino; sporulis fusoideis, 10 ≃ 3; basidiis tenuissimis, ramosis, centrum versus convergentibus, 15 μ. longis. 3587

Hab. in foliis Nymphææ pr. Angers Galliæ (Guepin).

5. **Sporonema obturatum** (Fr.) Sacc. *Clinterium obturatum* Fr. Summa Veg. p. 418, *Sphæria obturata* Fr. S. M. II. pag. 495, Curr. Simpl. Sphær. p. 341. — Peritheciis erumpentibus, subliberis, planis, ovoideis, nigris, dein collapsis, rimoso-dehiscentibus; sporulis curvulis, hyalinis, 10 μ. longis. 3588

Hab. in ramis Arbuti in Suecia. — Var. **epiphyllum** peritheciis subrotundis. In foliis Vaccinii Oxicocci et Ericæ in Suecia et Britannia. — Perithecia subinde stipitelli rudimento instructa; ostiolum prominens, nullum, sed in rimas minimas dehiscens, unde affinitas, quoad habitum, cum *Phacidiis*.

6. **Sporonema rameale** Desm. 19 Not. pag. 25. — Numerosum, dense sparsum, epidermide tectum, minutissimum, rotundatum vel oblongum, in lacinias 3-4 inæquales (epidermicas?) dehiscens; disco albido vel rufo, convexo; sporulis hyalinis, rectis, oblongo-cylindricis, obtusis, 10-15 ≃ 2,5, 2-3-guttulatis, globosis quandoque subopacis. 3589

Hab. in ramis siccis Sambuci nigræ in Gallia.

7. **Sporonema strobilinum** Desm. 20 Not. pag. 14. *Phoma strobilina* Sacc. Mich. II. p. 97. — Peritheciis minutis, subglobosis, tenuissimis, atris, gregariis, quandoque confluentibus, in lacinias 3590

(epidermicas?) plures, inæquales dehiscentibus; nucleo (vel disco) convexo, griseo, subopalino; sporulis numerosis, fusoideis, hyalinis, 10-15 ≃ 3; basidiis bacillaribus, subduplo longioribus.

Hab. in squamis strobilorum Abietis in Gallia et Germania. — «Sporulæ fusoideæ v. subclavulatæ, 15 ≃ 2½, hyalinæ, basidiis filiformibus, sæpius furcatis, 20 ≃ 2½ hyalinis suffultæ. — * **Ph. accedens** Sacc. Mich. II. p. 617. *Phoma strobilina* Peck et Clint. in Rep. on St. Mus. N. Y.: a typo differt sporulis paullo minoribus, nempe 8-11 ≃ 2-2½. In conis Abietis et Pini Strobi in America boreali et Gallia. — *Sphæria strobilina* Curr. Simpl. Sphær. p. 329 eadem res videtur.

8. **Sporonema Wallrothii** Mont. Pl. Cell. Cent. VIII. *Sph. hians* Wallr. 3591
Fl. crypt. n. 3742. — Peritheciis minutissimis sparsis, insculptis, nigris, vertice prominulis convexis, mox ostiolo irregulariter aperto hiantibus excipuliformibus cubiliaque exasperantibus; sporulis cylindraceis, continuis rectis, 15 μ. longis; basidiis undique centrum versus convergentibus, ramosis, 20-30 μ. longis.

Hab. ad pira immatura humi putrescentia in Thuringia.

PLEOCOCCUM Desm. et Mont. Ann. Sc. nat. 3. XI. p. 53 (Etym. *pleon* plus, et *coccum*). — Perithecia erumpentia, dimidiata, tenuiter membranacea, convexo-plana, atra, valvis 2-4 (sæpius ternis) siccitate conniventi-approximatis, madore discedentibus, dehiscentia. Nucleus mucilaginosus, opalinus, humore admoto, cito diffluens. Sporulæ ovoideo-oblongæ, hyalinæ. — A gen. *Sporonemate* vix diversum mihi videtur.

1. **Pleococcum Robergei** Desm. et Mont. Cent. VI. n. 44, et l. c., p. 3592
54. — Minutum, punctiforme, atro-nitens, in culmo foliisque decoloratis gregarium; sporulis innumeris, ovoideo-oblongis, hyalinis 5 μ. longis; basidiis nullis v. obsoletis.

Hab. in culmo Juncorum variorum, foliisque siccis Graminum nec non Cyperacearum, imprimis Caricis arenariæ, Hermonville, Calvados (Roberge).

2. **Pleococcum pezizoideum** Cooke, Grev. XII. pag. 24. — Sparsum, 3593
atrum, cupuliforme, erumpens, margine subintegro, disco cinereo; sporulis linearibus, obtusis, hyalinis, 7 ≃ 2; basidiis subrectis, simplicibus.

Hab. in foliis Lathyri, S. Carolina Amer. bor.

PSILOSPORA Rabenh. Herb. Myc. et Hedw. I. p. 107 (Etym. *psilos* nudus, et *spora*, h. e. sine asco). — Perithecia innato-superficialia,

oblonga v. inæqualia, sub-bilabiata, atra, sæpius in cortice subvivente matricis dense gregaria, membranaceo-carbonacea. Sporulæ ellipsoideæ vel oblongæ, continuæ, subhyalinæ basidiis bacillaribus suffultæ. — Cfr. quoque *Stagonospora strobilina* (Curr.) Sacc. Syll. III. n. 2456 seu *Psilospora strobilina* Sacc. Syll. II. n. 771. — Pycnidium sistit *Dichænæ*, quæ habitu simillima.

1. **Psilospora faginea** Rabh. Herb. Myc. II. p. 450 et Hedw. I. p. 107 cum icone, *Hysterium* (Dichæna) *rugosum* f. *Fagi* Fr. Elench. II. p. 141 ex parte. — Peritheciis majusculis, erumpentibus, oblongis, demum in maculas rugosas effusas confluentibus; sporulis ellipsoideis, 18–20 ≃ 14–15, hyalinis, sæpe guttatis; basidiis filiformibus, 50–60 ≃ 2. 3594

   Hab. in cortice vegeto Fagi silvaticæ in Suecia, Germania, Gallia, Italia, Austria.

2. **Psilospora Quercus** Rabh. in Fuck. Symb. myc. p. 401. *Dichæna quercina* Fr. S. Veg. Sc. p. 402 ex parte. — Peritheciis quam in *P. faginea* paullo minoribus et planioribus; sporulis (?) oblongis, 22–25 ≃ 8–10, 4-nucleatis, hyalinis. 3595

   Hab. in cortice vegeto levigato Quercus pedunculatæ, sessilifloræ, Suberis etc. in Gallia, Suecia, Germania, Italia, Lusitania. — Suspicor sporulas modo descriptas potius endosporas liberatas simillimæ *Dichænæ quercinæ* sistere. Sporulas stipitatas enim, ut in *P. faginea*, numquam vidi.

AMEROSPORIUM Speg. F. Arg. Pug. IV. n. 306 (Etym. α priv., *meros* pars, appendix, et *spora*, quia sporulæ muticæ). — Perithecia (*Dinemasporii* v. *Polynematis* ad instar) subcupulata, setulosa. Sporulæ cylindraceo-ellipticæ, muticæ. — Genus duobus modo citatis et *Heteropatellæ* Fuck. affine, a primis aristis sporularum deficientibus, ab ultimo setularum peritheciorum præsentia recedens.

1. **Amerosporium polynematoides** Speg. F. Arg. Pug. IV. n. 306. — Peritheciis superficialibus, subhemisphærico-applanatis, 200–250 μ. diam., in sicco centro late cupulatis (an tantum umbilicatis?), margine crasso, obtuso, udis convexis et disco diffluenti gelatinoso ornatis; contextu dense parenchymatico-elongatulo, atro-olivaceo; pilis rigidis, erectis, unicellularibus (an semper?), paucis, atris, basi vix incrassatis, apice acutiusculis et subhyalinis, 100–180 ≃ 5–12 adspersis; sporulis elliptico-cylindraceis, subclavulatis, sursum acutiusculis, deorsum obtusiusculis, utrinque minute 1-guttulatis, 12–15 ≃ 2–3, hyalinis, muticis. 3596

Hab. ad caules dejectos putrescentes Conii maculati, Bañado de San José de Flores in Argentina.

2. **Amerosporium phæotrichum** (Rab.) Sacc. *Excipula phæotricha* Rabenh. Bot. Zeit. 1857, pag. 405. — Gregarium, erumpens, demum fere libere enatum; peritheciis e globoso turbinatis fusco-atris, pilis rufo-fuscis vestitis, primo clausis, dein cupulato-dilatatis; sporulis minutis cylindraceis, continuis. 3597

Hab. ad caules emortuos Adenostyles albifrontis in montibus Sudetis.

3. **Amerosporium congregatum** (Cooke) Sacc. *Excipula congregata* Cooke in Grevillea. — Gregarium, plagulas atras in caulibus formans; peritheciis immersis, setulis erectis, nigricantibus, cuticulam perforantibus vestitis; sporulis linearibus, obtusis, curvulis. 3598

Hab. in caule emortuo Euphorbiæ silvaticæ, Darenth Britanniæ.

4. **Amerosporium incurvum** (Cooke) Sacc. *Excipula incurva* Cooke in Grevillea. — Sparsum, atrum; peritheciis hemisphæricis, nitidis, margine valde incurvo, disco livido-griseo, extus pilis rigidis, elongatis, densissimis obsitis; sporulis cylindraceis, curvulis, utrinque obtusis, hyalinis, 2-4-nucleatis, 18 μ. longis. 3599

Hab. in caulibus herbaceis, New York Amer. bor. (Gerard).

5. **Amerosporium Duriæi** (Mont.) Sacc. *Excipula Duriæi* Mont. Cent. VI. n. 89, in Ann., 3, IV. p. 359, et Syll. Crypt. n. 899, *Vermicularia Duriæi* Mont. Fl. Alg. — Gregarium, libere enatum; peritheciis minutis globosis, astomis, cupulato-depressis, pilis concoloribus atris divergentibus a basi ad medium, raro, nisi in junioribus, ad apicem vestitis; nucleo fuliginoso; sporophoris ramosis tenuissimis; sporulis cylindricis myriadeis 2-4-guttulatis, 12,5 = 2,5. 3600

Hab. in caulibus herbarum, La Calle Algeriæ (Durieu).

6. **Amerosporium punctiforme** (Berk.) Sacc. *Excipula punctiformis* Berk. North Am. Fungi n. 456. — Punctiforme superficiale, hispidum; sporulis curvis, fortiter apiculatis, latiusculis, enucleatis. 3601

Hab. in ramis emortuis Sarothamni v. Spartii (*corn-broom*) in Carolina infer.

7. **Amerosporium macrotrichum** (B. et Br.) Sacc. *Excipula macrotricha* B. et Br. Ann. N. H, n. 444. — Peritheciis majusculis, grosse setosis; setulis longis, rectis, bitunicatis, tunica interiore ab exteriore facile secedente; sporulis minutis, lunulatis. 3602

Hab. in ramis Ulicis in Britannia.

8. **Amerosporium microsporum** (C. et Ell.) Sacc. *Excipula microspo-* 3603

ra C. et E. Fung. New Jersey, in Grevillea t. 95. f. 18. — Sparsum, atrum; peritheciis superficialibus, siccis, globosis, udis demum arcte apertis, hemisphæricis, sursum levibus, deorsum pilis rigidis obsitis, disco livido; sporulis allantoideis, hyalinis, minutis, 8 μ. lg.

Hab. in ligno Caryæ et Ilicis, New Jersey Amer. bor.

9. **Amerosporium chætostroma** (B. et Br.) Sacc. *Excipula chætostroma* B. et Br. Ann. N. H. n. 445, t. XI, f. 2. — Gregarium minutum, convexum, cinereo-nigrum, disco setulis longis, continuis, penetrantibus asperulo; sporulis lunato-fusoideis, utrinque acutis, pallidis, plasmate granuloso, chlorino; basidiis longiusculis fasciculatis v. connatis. 3604

Hab. in ramis emortuis Fraxini, Somerset Britanniæ.

10. **Amerosporium applanatum** (B. et C.) Sacc. *Excipula applanata* Berk. et Curt. Exot. Fungi p. 281. — Applanatum, strigosum; disco pallido; sporulis minutis, oblongis, brevibus, curvatis, 6–7 μ. long. 3605

Hab. in corticibus, Surinam.

11. **Amerosporium corvinum** (Pers.) Sacc. *Excipula corvina* (Pers.) Fr. Summa Veg. p. 403, *Peziza corvina* Pers. Myc. eur. I. p. 248. — Suberumpens, utrinque atra, subdepressa, externe pilosa. 3606

Hab. ad ramos et ligna in Germania. — Pusilla late aperta; subiculum in aliquibus adest maculiforme, pariter nigrum. — Dubia, quia fructificatio latet.

12. **Amerosporium leucotrichum** (Peck) Sacc. *Excipula leucotricha* Peck Rep. on the St. Mus. New York. — Peritheciis minutis sparsis, disco plano v. leniter convexo, orbiculari, elliptico v. elongato, nigro, setis longiusculis, septatis, hyalinis marginato; sporulis fusoideis, hyalinis, 7–10 μ. longis. 3607

Hab. in foliis emortuis graminum, West Albany Amer. bor. — Species setulis delicatis albidis distincta.

13. **Amerosporium Caricum** (Lib.) Sacc. *Excipula caricum* Lib. in Herb. (sub *Vermicularia*), Cooke in Grevill. — Sparsum, innatum, atrum; peritheciis sphæricis, pilis longissimis tectis, pezizoideo-apertis; sporulis fusiformibus, rectis, utrinque attenuatis. 3608

Hab. in foliis Caricum in Arduennis. — Minus quam *Dinemasporium graminum* et sporulæ non aristatæ, sec. Cooke.

14. **Amerosporium Equiseti** (Peck) Sacc. *Excipula Equiseti* Peck 26 Rep. p. 77. — Peritheciis minutis, sparsis, applanatis, nigris, setulis longiusculis, rectis, nigricantibus vestitis; sporulis rectis, cylindraceis, hyalinis, 7–10 μ. longis. 3609

Hab. in caule Equiseti, Buffalo Amer bor. (Clinton).

DINEMASPORIUM Lév. Ann. Sc. nat. 1846, p. 274. (Etym. *dis* bis, *nema* filum et *spora*), *Polynemæ* Fr. et Fuck., nec Lév. — Perithecia cupuliformia, superficialia, atra, setulis fuscis rigidulis conspersa. Sporulæ oblongæ vel allantoideæ, continuæ, hyalinæ, utrinque 1-aristatæ. Basidia bacillaria, rarius ramosa.

I. *Eu-Dinemasporium.*

Sporulæ utrinque 1-aristatæ.

1. **Dinemasporium graminum** Lév. Ann. Sc. nat. 1846, p. 274, *Excipula graminum* Berk. Corda Icon. III. f. 79. — Peritheciis sparsis, pilis simplicibus, atris, apice pallidioribus, 200-400 ≃ 8-12, hirtis, subcupulatis, minutis; sporulis falcato-fusoideis, 15 ≃ 2,5-3, hyalinis, utrinque setulâ 15 μ. longâ obliquâ auctis. 3610

Hab. in culmis foliisque languidis vel emortuis Arundinis, Andropogonis, Eutrianæ, aliorumque graminum et Caricum in Gallia, Italia, Britannia, Germania, Belgio, Amer. bor. et australi, India or., Cuba. Secundum auctores habetur forma sporulis 10-14 μ. tantum longis (Cuba et Amer. bor.), alia sporulis 15-20 μ. longis, ciliisque vero brevioribus (in Carolina). Sec. cl. Spegazzini species occurrit quoque in caule Medicaginis in Argentina; an vere identica? — β. **strigosulum** Karst. Hedw. 1884, p. 21: a typo recedit sporulis minoribus, 9-12 ≃ 2-3, setulisque 6-8 μ. longis utrinque auctis. In culmis foliisque emortuis Secalis, Poæ, Phragmitis prope Mustiala Fenniæ.

2. **Dinemasporium strigosum** (Fr.) Sacc. Mich. II. p. 281, *Peziza strigosa* Fr. S. M. II. p. 103, *Vermicularia strigosa* Lib. Exs. n. 349? Peritheciis innato-sessilibus, applanatis, concavis, strigosis; disco pallido; sporulis fusoideo-falcatis, 25-30 ≃ 3-4, utrinque acutis, guttulatis, hyalinis, setulâ 4-5 μ. longâ utrinque auctis 3611

Hab. in foliis culmisque graminum in Germania, Italia, Gallia, Belgio, Cuba et Avan River. — β. **leptosporum** Sacc. Mich. II. p. 600: sporulis fusoideo-curvulis, 16-18 ≃ 1½-2, utrinque breve setigeris, 4-nucleatis, hyalinis. In culmis graminum in Gallia.

3. **Dinemasporium rhodophæum** Speg. in Michelia I. p. 480. — Peritheciis cupuliformibus parenchymate immersis, disco superficiem non vel vix (humiditate) excedente, numquam tectis, laxe gregariis, subparallelis, macula nulla vel subnulla insidentibus, discoideis sed ob pressionem nervorum folii subquadratis, minutis, ¼-½ mill. diam.; excipuli contextu parenchymatico, fuligineo, margine aterrimo, nitente atque pilis brevissimis, 20-40 ≃ 5, concolo- 3612

ribus, unicellularibus, laxe ornato; disco amœne roseo vel roseo-aurantiaco; sporulis ellipticis, rectis, biguttulatis, 9 ≃ 3, hyalinis, utrinque setulâ rigidulâ subæquilongâ, rectâ auctis.

Hab. in foliis emortuis diu intemperiis expositis Phragmitis communis in insula dicta Lido apud Venetias.

4. **Dinemasporium microsporum** Sacc. Misc. Myc. F. helv. n. 17. — 3613
Peritheciis sparsis, subsuperficialibus, subcupulatis, 1/3 mill. diam., nigris, setulis rigidis, cuspidatis, 250-280 μ. longis, subcontinuis, atris obsessis; sporulis cylindraceis, curvatis, 7-9 ≃ 2-3, utrinque oblique 1-ciliatis, ciliis 10-12 μ. longis, hyalinis; basidiis fasciculatis filiformibus, 40 ≃ 1-1,5.

Hab. in foliis emortuis Phragmitis ad lacum Neuchatel Helvetiæ (Morthier). — Certe affine *D. decipienti*.

5. **Dinemasporium minimum** C. et Ell. in Grevillea. — Sparsum, exi- 3614
guum, atrum; pilis rigidis, septatis, erectis circ. 100 μ. longis; disco vix conspicuo; sporulis linearibus, curvulis, nucleatis, utrinque ciliatis, 20 ≃ 4 (cum ciliis).

Hab. in foliis Andropogonis, New Jersey Amer. bor.

6. **Dinemasporium bicristatum** Cooke in Rav. Fung. Amer. n. 144 et 3615
in Grevillea. — Erumpens; peritheciis brunneo-atris, sparsis, pilis rigidulis obsitis; disco pallide cinereo; sporulis linearibus, brevibus, 12-14 μ. longis, hic 2-ciliatis, hinc 1-ciliatis.

Hab. in Zea Mays, Aiken Carolinæ infer. — «E ciliis geminis forte alterum ut stipes seu basidium habendum est».

7. **Dinemasporium ciliatum** (Bon.) Sacc. *Chætomium ciliatum* Bon. 3616
Handb. Myk. p. 226. — Peritheciis ovoideis, teneris, basi imprimis pilis longis nigris, non septatis instructis mycelioque repente cinctis; sporulis cylindraceis, utrinque setulâ exiguâ ornatis.

Hab. in culmis graminum inter muscos in Guestphalia.

8. **Dinemasporium Dianthi** (West.) Oud. Bot. Zeit. 1875, p. 591, *Phyl-* 3617
losticta Dianthi West. Not. Crypt. ined. 1851 e p. — Maculis subcircularibus dein subconfluentibus, albidis; peritheciis exiguis, numerosis in utraque pagina prominulis, setulis atris cladosporioideis cinctis, collabascendo depressis, atris, supra stramineis; sporulis elongatis, hyalinis, 14-16 ≃ 3,5, utrinque in setulam brevem productis, obsolete 1-septatis.

Hab. in foliis languidis Dianthi barbati in Belgio.

9. **Dinemasporium Patella** C. et Ell. in Grevillea. — Sparsum; pe- 3618
ritheciis demum superficialibus, atris, cupuliformibus; margine incurvatis, extus flexuoso-pilosis; sporulis fusiformibus, curvulis,

utrinque attenuatis, 3-4-nucleatis, 25-30 μ. longis (sine appendiculis).

Hab. in caulibus herbarum, New Jersey Amer. bor. — Habitus *Excipulæ recurvæ* Gerard, sed sporulæ aristatæ et paullo majores.

10. **Dinemasporium hispidulum** (Schrad.) Sacc. Mich. II. p. 281, *Peziza hispidula* Schrad. Journ. Bot. 1799, II. p. 64, *Polynema hispidulum* (Schrad.) Fr. Summa p. 367, Sacc. Spec. Ven. p. 189, t. XVII. f. 16. — Peritheciis gregariis vel sparsis, majusculis, cupuliformibus, atris, setis rigidis longis rectis, subseptatis, disco glaucescente; sporulis elongato-fusoideis, curvulis, 14-18 ≃ 2-2,3, 3-4-guttulatis, utrinque setulâ brevi obliquâ auctis. 3619

Hab. in ligno putrescente Quercus, Castaneæ, Coryli, Robiniæ etc., rarius in culmo Donacis in Germania, Gallia, Italia, Belgio. — Var. **herbarum** Cooke F. Br. II. n. 28: peritheciis sæpe paullo majoribus; sporulis 11-14 ≃ 2,5-3, breviter ciliatis. In caule Labiatarum, Silenes, Urticæ in Britannia, Italia, America boreali.

11. **Dinemasporium decipiens** (De Not.) Sacc. Mich. II. p. 282, *Excipula decipiens* De Not. Att. Accad. Tor. Ser. II. 10 p. 170. — Peritheciis gregariis cupulatis exiguis, atris, setulis rigidulis atris rectis hirtis; sporulis fusoideo-allantoideis, 6-7 ≃ 2-2,5, utrinque setulâ filiformi, 6-7 ≃ 1, obliquâ auctis; basidiis (in peritheciis junioribus observandis) filiformibus, prælongis, dichotome ramosis, subinde simplicibus, mox evanescentibus. 3620

Hab. in lignis Carpini, Robiniæ, Castaneæ, Quercus, Rhamni in Italia boreali et Austria.

12. **Dinemasporium Robiniæ** Gerard in litt. Peck 25 Rep. p. 88. — Peritheciis cupuliformibus, setosis, nigris; sporulis elongatis, 5 μ. longis, utrinque aristâ sporulam æquante auctis. 3621

Hab. in ligno Robiniæ, Poughkeepsie Amer. bor. (Gerard). — « An diversum a *D. decipiente?* ».

13. **Dinemasporium Pezizula** B. et C. North Amer. Fungi n. 454. — Pezizæforme, hirtum; sporulis curvatis, angustis, 3-5-nucleatis, 20 ≃ 4. 3622

Hab. in ramis et ligno Sambuci pubentis in montanis Carolinæ sup., New Baltimore et North Greenbush Amer. bor.

14. **Dinemasporium gelatinosum** B. et Br. Fungi of Ceyl. n. 797. — Superficiale, in epidermide nigra insidens; sporulis hyalinis magnis, breviter fusiformibus ellipticisve, 30-33 μ. longis. 3623

Hab. in ramis emortuis, Central province Ceylon.

15. **Dinemasporium acerinum** Peck 26 Rep. pag. 77. — Peritheciis 3624
minutis, pezizoideis, nigris, pilis sparsis, atris, brevibus rectis hirtis; sporulis inæqualiter ellipsoideis, 7–8 μ. longis, utrinque setulâ 2–3 μ. longâ auctis.

Hab. in ligno Aceris, Buffalo Amer. bor. (Clinton.) — A *D. Robiniæ* sporulis longioribus pilisque brevioribus dignoscitur.

16. **Dinemasporium affine** Speg. F. Arg. Pug. III. n. 130. — Peri- 3625
theciis cupulato-hemisphæricis, gregariis, $^1/_4$–$^1/_5$ mill. diam., atris, siccis, ruguloso-contractis, udis aperto-applanatis, epithecio albo-hyalino diffluente, setis, raris, paucis, cylindraceis, utrinque subattenuatis, 3–5-septatis, 50–80 ≃ 5, atris ornatis, contextu densissime prosenchymatico, minuto, atro, carnosulo; sporulis ellipticonavicularibus, 4–5 ≃ $1^1/_2$, utrinque rotundatis ac setulâ æquilongâ hyalinâ auctis, in sterigmatibus cylindraceis, hyalinis, 10–15 ≃ 1, acrogenis.

Hab. in trabe vetusta diu intemperiis exposita prope el Retiro, Buenos-Aires Argentinæ.

17. **Dinemasporium Betulæ** (Fuck.) Sacc. *Excipula Betulæ* Fuck. En. 3626
Nass. p. 64. — Gregarium, sessile, applanatum, concavum, extus setis longis erectis, nigris, disco pallescenti; sporulis parvis, cylindraceis, curvatis, utrinque longe 1-aristatis.

Hab. in ligno betulino decorticato, ad terram prostrato, Eberbach Rhenogoviæ. — Totus fungulus 1 lineam latus.

18. **Dinemasporium fimeti** Plowr. et Phill. in Grev. IV. p. 119, t. 62, 3627
fig. 1. — Peritheciis subrotundis, superficialibus, nigris; sporulis utrinque appendiculatis, 7 μ. longis (absque ciliis).

Hab. in stercore cuniculorum, King's Lynn Britanniæ. — A *D. graminum* differt peritheciis minoribus et compactioribus et sporulis minoribus.

II. *Stauronema* Sacc.

Sporulæ cruciato-aristatæ.

19. **Dinemasporium cruciferum** Ellis Bull. Torr. Cl. Fetr. 1882, p. 20. 3628
— Minutum, margine atro-brunneo-setulosum, setulis 75–85 μ. longis; sporulis oblongis, curvulis, 7,5–8,5 ≃ 3–4, carneolo-hyalinis utrinque aristâ obliquâ, sporulam æquante auctis, nec non ad medium aristâ breviore utrinque ornatis (hinc ciliis quatuor decussatis).

Hab. in culmis foliisque dejectis graminum prope Newfield

N. J. Amer. bor. — Interdum a medio latere convexiore sporularum binæ aristæ oriuntur fere ut in *Diap. Chor. Taleola.*

20. **Dinemasporium Platense** Speg. Fung. Arg. II. p. 36. — Perithecis siccis globoso-contractis, udis diffluentibus subpatellaribus, atris, $^1/_2$-$^1/_3$ mill. diam., hirsutis; setulis continuis, opacis, rectis rigidis, atris, 60-100 ≃ 6-8, apice obtuse rotundatis; sporulis cylindraceo-ellipticis, inæquilateraliter rotundatis, 15 ≃ 4-5, utrinque ac medio dorso setula 15 ≃ 1 hyalina ornatis. 3629

Hab. in culmis putrescentibus Scirpi speciei cujusdam ad ripas Rio de la Plata in Rep. Argentina.

POLYNEMA Lév. Ann. Sc. nat. 1846, p. 274 (Etym. *polys* multus, et *nema* filum), *Excipula* De Not. — Perithecia cupuliformia, superficialia, atra, setis rigidulis vestita. Sporulæ oblongæ, continuæ, hyalinæ, stipitellatæ, apice aristis subquaternis patentibus ornatæ.

1. **Polynema ornatum** (De Not.) Lév. Ann. Sc. nat. 1846, p. 274, *Excipula ornata* De Not. Att. Accad. Tor. 1845, VII. Dec. III. n. 2. — Peritheciis cupuliformibus, superficialibus, atris, minutis, siccis contractis, madore apertis, strigoso-hirtis; setulis confertis, flexuosis, rigidis, longiusculis, fuscis; disco cinerescente; sporulis oblongis vel oblongo-clavulatis, chlorino-hyalinis, apice aristis patentibus quaternis ornatis, basidiis setiformibus suffultis, 8-10 ≃ 2-2,5, ciliis basidioque 5-6 μ. longis. 3630

Hab. in epidermide dealbata trunci Castaneæ vescæ prope Genova Italiæ borealis.

DISCELLA B. et Br. Ann. N. H. n. 426 ex parte (Etym. a *disco* ob formam perithecii). — Perithecia disciformi-patellata, sæpe imperfecta et veluti e matrice mutatâ formata, epidermide dein varie fissa diu velata. Sporulæ fusoideæ vel oblongæ, 1-septatæ subhyalinæ. — Genus elementis heterogeneis compositum; nonnullæ species, perithecio vero carentes ad *Melanconieas* aptius ducerentur. Species amerosporas sub genere *Discula* seposui.

1. **Discella carbonacea** (Fr.) B. et Br. Ann. N. H. n. 426, t. XII. f. 8, *Phacidium carbonaceum* Fr. S. M. II. p. 574, *Nemaspora Mougeotii* de Lacr. — Peritheciis discoideis vel excipuliformibus, sparsis, atris, epidermide initio tectis, demum eâ laciniatim scissâ, erumpentibus; sporulis fusoideis, rectis, 18 ≃ 6, 1-septatis, non constrictis, hyalinis vel chlorinis, basidiis teretibus dimidio brevioribus suffultis. 3631

Hab. in ramis corticatis Salicis capreæ, S. albæ etc. in Gallia, Germania, Britannia, Lusitania, America boreali.

2. **Discella canadensis** Peck Rep. on the St. Mus. New York. — Pustulis exiguis; peritheciis obsoletis vel evanidis; sporulis oblongis vel oblongo-ovoideis, 20-25 μ. longis, initio hyalinis dein coloratis et plerumque 1-septatis, in grumulos vel cirros atros exsilientibus; basidiis sporulas subæquantibus eisque primum hærentibus. 3632

Hab. in ramis Amelanchieris canadensis, Center Americæ borealis.

3. **Discella arida** Peck Rep. on the St. Mus. New York. — Peritheciis in maculis sat amplis, aridis, griseis innatis, minutis, applanatis, pezizoideis, nigris, initio epidermide tectis, dein ea circulariter secedente, anulatim prominulis; sporulis oblongis vel lanceolatis, continuis dein 1-septatis, hyalinis, 9-13 μ. longis. 3633

Hab. in foliis languidis Cassandræ calyculatæ, Adirondack Amer. bor. — Faciem præbet minutæ *Mollisiæ*.

4. **Discella abnormis** B. et Br. Ann. N. H. n. 429. — Peritheciis spuriis globosis, poro rotundo pertusis, omnino tectis et cum matrice fere confusis; sporulis breve fusoideis, 1-septatis, flavo-brunneis. 3634

Hab. in ramulis Sambuci, Batheaston Britanniæ. — Ad typum *Diplodiæ* accedit.

PSEUDOPATELLA Sacc. (Etym. a similitudine *patellæ*). Cfr. Tul. Select. Fung. Carp. III. p. 177, t. XX. f. 9-11, ut spermogonium *Durellæ*. — Perithecia initio globulosa, dein patellato-pezizoidea, turgidula, subcoriacea, glabra, subsuperficialia, atra, disco pallidiore. Sporulæ oblongæ 1-septatæ, subhyalinæ in basidiis longis, ramulosis, tortuosis acro-pleurogenæ.

1. **Pseudopatella Tulasnei** Sacc. Cfr. Tul. l. c. Characteres generis. Sporulæ oblongæ, vix curvulæ, utrinque rotundatæ, 1-septatæ, vix constrictæ, 8-11 ≃ 3,5. 3635

Hab. in lignis nudis, arefactis Castaneæ et Quercus prope Paris et Versailles Galliæ. — Sec. Tul. sistit spermogonium *Durellæ compressæ*.

EXCIPULINA Sacc. (Etym. ab *Excipula*, cui affinis) *Excipula* Auct. p. p. — Perithecia excipuliformia vel subcupulata, erumpenti-superficialia, atra, glabrescentia. Sporulæ elongato-fusoideæ, 2-pluriseptatæ, subhyalinæ, (in una specie apice rostratæ).

1. **Excipulina recurvispora** (B. et C.) Sacc. *Excipula recurvispora* 3636
B. et C. North Amer. Fungi n. 450. — Maculis fuscis, nigro-marginatis; peritheciis erumpentibus; sporulis longis, anguste fusiformibus, 4-septatis, apice in processum longum hyalinum recurvum attenuatis.

Hab. in foliis Lauri Caroliniensis in Carolina inf.

2. **Excipulina conglutinata** Ellis et Everh. Bull. Washburn. I. p. 6. 3637
— Peritheciis hemisphæricis, $^3/_4$-1 mill. diam., fibroso-contextis, fibris marginalibus subliberis, hinc marginem subfimbriatum et incurvatum formantibus, materie viscosa atra conglutinatis; disco pallido; sporulis copiosis, arcuato-fusoideis, utrinque attenuatis, plasmate 2-3-partito vel 2-3-septatis, 22-25 ≃ 3.

Hab. in caule putri Valerianæ capitatæ in M. Paddo Washington Amer. bor. (Suksdorf). — Habitus Sphæriaceæ collapsæ; differt ab *E. incurva* sporulis acuminatis, longioribus et peritheciis glabris.

EXCIPULARIA Sacc. (Etym. ab *Excipula*, cui affinis) *Excipula* Auct. p. p. — Perithecia excipuliformia, atra, setosa. Sporulæ fusoideæ, 2-pluriseptatæ, hyalino-fuscellæ, basidiis brevibus suffultæ.

1. **Excipularia fusispora** B. et Br. Ann. N. H. n. 814, t. IX. f. 1. 3638
— Peritheciis minutis, nigris, setulis continuis, rigidis, dense vestitis; sporulis anguste fusiformibus, 6-7-septatis, curvis, 50 μ. longis, articulis extimis hyalinis, ceteris fuscellis guttulatisque; basidiis bacillaribus brevibus.

Hab. in cortice interiore Clematidis Vitalbæ in Britannia.

PILIDIUM Kunze Myk. Heft. II. pag. 92, emend. (Etym. *pilidion* pileolus). — Perithecia erumpentia, discoideo-scutellata, inæqualia, membranacea, atro-fuliginea, denique margine sublaciniata, disco pallidiore. Sporulæ oblongæ vel fusoideo-falcatæ, 2-pluriseptatæ, hyalinæ.

1. **Pilidium fuliginosum** (Fr.) Auersw. Hedw. 1866, p. 191, *Cenan-* 3639
gium fuliginosum Fr. Elench. II. p. 23, *Pilidium carbonaceum* (Lib.) B. et Br. Ann. N. H. n. 442. — Peritheciis irregularibus atro-brunneis, in plagas latas aggregatas subiculoque late effuso, ambiente innatis; sporulis filiformibus falcatis, 3-septatis, hyalinis.

Hab. in ramulis salicinis e. g. Salicis capreæ in Gallia, Britannia, Germania.

2. **Pilidium Eucleæ** (K. et C.) Sacc. *Protostegia Eucleæ* Kalch. et Cooke 3640

in Grev. 1880, p. 19. — Epiphylla; peritheciis immersis, discoideis, fuscis, margine dentato: disco aquose cinereo, convexo; sporophoris parce ramosis; sporulis linearibus, rectis v. curvulis multinucleatis, demum 3–5-septatis, 40–50 ≃ 3.

Hab. in foliis Eucleæ undulatæ in Africa australi.

SCHIZOTHYRELLA Thüm. M. U. n. 1684 (Etym. *schizo* findo, et *thyreos* scutum). *Schizothyrium* Lib. Herb. et in Roum. F. Gallici n. 612. — Perithecia innata vel superficialia, membranacea, primo clausa, dein in lacinias a centro versus ambitum dehiscentia, a nucleo discreta. Nucleus ceraceus, coloratus. Sporulæ cylindraceo-filiformes, septatæ, dein in articulos utrinque truncatos septatosque secedentes, hyalinæ vel pallidæ. — Articuli ipsi, in quos sporulæ facile dilabuntur, possunt, si mavis, considerari ut sporulæ in catenulam digestæ.

1. **Schizothyrella quercina** (Lib.) Thum. M. U. 1684, *Schizothyrium quercinum* Lib. in Roum. F. Gall. n. 612. — Peritheciis hypophyllis, innatis, hemisphæricis, nigris, in lacinias 4–6 dehiscentibus, excipuli contextu parenchymatico fuligineo, distincto, nucleo luteo-rubello; sporulis filiformibus seu in catenulas longissimas digestis, cylindricis utrinque obtusis, 15 ≃ 1½, quadrilocularibus, loculis ipsis denique secedentibus, 4 ≃ 1½, hyalinis v. pallide melleis. 3641

Hab. in foliis quercinis frigore necatis prope Malmedy in Arduennis (Libert). — Fungus singularis ob fructificationem ad *Blennorium Buxi* Fr. et *Leptothyrium? botryoides* Sacc. accedens. Sec. Speg. in Roum. Rev. Myc. adsunt subinde hyphæ intermixtæ ramulosæ nodulosæ, septulatæ, crassiusculæ, hyalinæ.

2. **Schizothyrella australis** (Sp.) Sacc. *Schizothyrium australe* Speg. F. Argent. n. 128. — Peritheciis superficialibus, sparsis, primo globosis vel difformi-lenticularibus, clausis, atris, dein laciniatim dehiscentibus, epithecio sordide ceraceo-albo, coriaceo-membranaceis, contextu indistincte parenchymatico atro; sporulis cylindraceis, hyalinis, filiformibus, longitudine varia, mox in articulos cylindraceos utrinque truncatos, 10–25 ≃ 3, secedentibus. 3642

Hab. in ligno putrescente decorticato Excæcariæ (Sapii) biglandulosæ in sepibus prope la Recoleta Argentinæ.

PROTOSTEGIA Cooke in Grevillea p. 19. (Etym. *protos* primus et *Stegia*, h. e. quasi initium *Stegiæ*). — Primo tecta, dein denudata, discoidea, margine lacerato, dentato fimbriatove, disco gelatinoso. Sporulæ filiformes, continuæ, pedicellatæ, dein liberæ.

1. **Protostegia Magnoliæ** (Rav.) Sacc. *Stegia Magnoliæ* Rav. Fungi Amer. n. 320, Ellis North Amer. n. 676. — Peritheciis disciformibus erumpentibus, atris, gregariis, hypophyllis; sporulis anguste cylindraceis, curvis, fasciculatis, 30 ≃ 0,5, subhyalinis. 3643

Hab. in foliis languidis Magnoliæ glaucæ in Carolina inf.

ONCOSPORA Kalch. in Grevillea 1880, p. 19 (Etym. *oncos* uncus et *spora*). — Perithecia erumpentia, cupuliformia vel discoidea, plerumque gregaria, disco nudo, gelatinoso. Sporulæ hyalinæ, continuæ, flexuosæ, in sporophoris tenuissimis acrogenæ. — Subinde substipitata et emergens sæpeque cæspitosa.

1. **Oncospora bullata** Kalch. et Cooke South Afr. Fungi in Grevillea 1880. — Maculis bullatis, nigris; peritheciis gregariis, discoideis, atris, margine elevato; hymenio fusco; sporulis subclavatis, hamatis vel sigmoideis, simplicibus, 30 ≃ 7. 3644

Hab. in foliis Capparidis citrifoliæ in Africa australi. — Cæspitulum *Mollisiæ Dehnii* fere æmulatur. Sporulæ signum interrogationis (?) sæpe imitantes.

EPHELIS Fr. Fungi Mex. in B. et C. Cub. Fungi n. 567 et in Summa Veg. Scand. p. 370. (Etym. *epi* supra et *helos* clavus vel tuberculum). — Stroma subeffusum, sclerotioideum, atrum. Perithecia pezizoideo-aperta, stromate inserta. Sporulæ cylindraceæ vel filiformes, continuæ, hyalinæ.

1. **Ephelis mexicana** Fr. Fungi Mex. sec. B. et C. Cub. Fungi n. 567. — Stromate solido nigro, *Dilophosporæ* ad instar; peritheciis pezizoideis, expositis; sporulis filiformibus, exiguis 25 μ. longis, basidiis minutis suffultis. 3645

Hab. in inflorescentia Graminum, quæ in stroma atrum sclerotioideum mutatur. — Videretur *Peziza* minuta e stromate nigro enata.

2. **Ephelis brevis** B. et Br. Fungi of Ceyl. n. 800. — Solida, nigra; sporulis minutis, brevibus, linearibus, 4 μ. longis. 3646

Hab. in Anthisteria tremula, Peradeniya, Ceylon. — Habitus ab initio *Sclerotii Clavi*.

3. **Ephelis viridans** (K. et C.) Sacc. *Oncospora viridans* Kalch. et Cooke South Afric. Fungi in Grev. 1880, pag. 20. — Epiphylla, cæspitosa, erumpens; peritheciis atris, substipitatis, in stromate pulvinato-congestis; disco cinereo; sporulis cylindricis vel subclavatis, rectis vel curvulis, 20 ≃ 3,5, hyalinis; sporophoris gelatinâ viridi immersis. 3647

Hab. in foliis Capparidis Guienzii in Africa australi.

Genera dubia vel excludenda.

COCCOBOLUS Wallr. Fl. crypt. gen. n. 359. (Etym. *coccos* granum et *bolos* jactus). – Perithecium tenuiter membranaceum, nigrum, latitans, insculptum cubilibusque coarctatum, simplex, pulpa gelatinosa fluxa farctum eaque dein ex vertice dimoto prominulo denuoque contracto propulsa, sphærica, limpida, superficiali, mox (siccando) coacta vesicæformi. Sporulæ (ascidia Wallr.) exilissimæ, sphæricæ, gelatinæ innatantes, in globulum ejectæ.

1. **Coccobolus castaneus** Wallr. Fl. crypt. n. 3648. — Globulo spo- 3648
rophoro emerso, primum limpido dilute, dein saturatius fusco, nitido, majusculo.

Hab. ad ligna decorticata fraxinea in Thuringia.

2. **Coccobolus aëneus** Wallr. Fl. crypt. n. 3649. — Globulo sporophoro 3649
emerso, primum vinoso, dein aëneo-virente, melanophæno, parvo.

Hab. ad frustula ligni faginei in Hercynia infer.

AMPHISPORIUM Link Obs. II. p. 40, t. I. f. 6, Wallr. Fl. crypt. gen. n. 266 (Etym. *amphi* et *spora*, ob sporulas dimorphas). — Perithecium persistens. Sporulæ dimorphæ, aliæ globulosæ, aliæ fusiformes, nudæ.

1. **Amphisporium versicolor** Link l. c. Wallr. l. c. n. 2083. — Peri- 3650
thecio convexo, pallido, submucoso; sporulis concoloribus biformibus farcto.

Hab. ad bulbos Hyacinthi, sub aqua, hyemis tempore demersos in Germania (Link). — Perithecii colore mutabilis, primum albus, dein lutescens, denique pallido-cinerescens.

ENDOTRICHUM Corda Anl. pag. 147 et Icon. II. p. 25, f. 24 (Etym. *endon* intus et *thrix* floccus). — Perithecia carbonacea, innata v. immersa, dein rima longitudinali rarius irregulariter dehiscentia, intus nucleo sporularum colorato, floccis continuis intertexto. Basidia spuria dein secedentia, monospora. Sporulæ heterogeneæ, continuæ, irregulariter inspersæ. — Species unica **E. xylogrammicum** 3651
Corda l. c. In lignis in Bohemia. Sporulæ 3–4 μ. l., ellipticæ, fuscæ.

NEURŒCIUM Kunze in Fr. Summa Veg. Scand. p. 370 (Etym. *nevron* nervus, fibra, et *oicos* domus). — Perithecia innata, oblonga, in ambitu floccoso-radiantia, rima longitudinali discoideo-aperta. Sporulæ maximæ, intus grumosæ in thalamo pellucide fibroso dense

conglutinatæ. — Species unica **N. Degueliæ** Kunze. In foliis Degueliæ scandentis in Brasilia. — Videretur *Sphæropsidea dimidiata*, prope *Leptostromata*; nisi sporulæ maximæ sint asci. 3652

MICROSTICTA Desm. Ann. Sc. nat. 1849, p. 360 (Etym. *micros* parvus et *stictos* punctatus).

1. **Microsticta vagans** Desm. l. c. *Perisporium speireum* Fr. S. M. II. p. 350, *Depazea speirea* Corda II. p. 27, f. 98. — Peritheciis adnatis, planiusculis, orbiculatis, opacis, atris, ceterum superficialibus. 3653

Hab. in pag. inf. foliorum variarum plantarum in Suecia, Gallia etc. — «Fere absque dubio sistit incunabula *Microthyrii microscopici*».

2. **Microsticta Pomi** (Mont.) Desm. l. c., *Labrella Pomi* Mont. Ann. Sc. nat. 1834, p. 347. — Maculis nullis; peritheciis ellipticis, minimis, rugosis, nitidis, dein (teste Thüm.) apertis et excipuliformibus; sporulis subglobosis, dilute griseolis, 7 μ. diam. (teste Thüm.). 3654

Hab. in epicarpio Piri Mali in Gallia, Italia, Germania et Amer. bor. etc.

PLEOSPOROPSIS Œrst. Syst. Pilz. p. 55. (Etym. *Pleospora* et *opsis* aspectus). — Perithecia globoso-depressa, initio læticoloria, dein fusca, subsuperficialia, papyracea, dein vertice circumscisso operculatim dehiscentia; contextu hexagono-parenchymatico, pellucido. Sporulæ continuæ, ovoideæ, majusculæ, pallide flavæ. — Ambiguum genus, forte non diversum a *Mycogalacte*. Cfr. pag. 185.

1. **Pleosporopsis strobilina** (A. S.) Œrst. l. c., *Licea strobilina* A. S. Consp. p. 109, t. VI. f. 5, *Perichæna strobilina* (A. S.) Fr., Corda Ic. V. p. 56, f. 30. — Peritheciis gregariis cinnamomeis, dein sordide fuscis, glabris; pulpa sordide flava pulverulenta; sporulis ovoideis, subpellucidis, extus subgranulosis, 22–26 μ. longis. 3655

Hab. in pag. inf. bractearum strobilorum Pinorum et Abietum in Gallia, Germania, Bohemia, Britannia.

REPERTORIUM

SPHÆROPSIDEARUM EXCIPULACEARUM

SECUNDUM MATRICES

Obs. A. indicat *Amerosporium*. — Ai. *Amphisporium*. — C. *Catinula*. — Co. *Coccobolus*. — D. *Dothichiza*. — De. *Discella*. — Di. *Dinemasporium*. — Du. *Discula*. — E. *Excipula*. — Da. *Excipularia*. — Ei. *Excipulina*. — Eu. *Endotrichum*. — Es. *Ephelis*. — G. *Godroniella*. — H. *Heteropatella*. — L. *Lemalis*. — M. *Microsticta*. — N. *Neurœcium*. — O. *Oncospora*. — P. *Pleococcum*. — Pa. *Pseudopatella*. — Pi. *Pilidium*. — Pl. *Pleosporopsis*. — Po. *Polynema*. — Pr. *Protostegia*. — Ps. *Psilospora*. — S. *Sporonema*. — Sa. *Schizothyrella*.

N. 3519 — 3655 citantur 519 — 655

Abies — E. 525. — S. 590. — Pl. 655.
Acer — Du. 572. 573. — Di. 624.
Adenostyles — A. 597.
Alisma — L. 558.
Amelanchier — De. 632.
Andropogón — Di. 610. 614.
Anthisteria — Es. 646.
Arbutus — S. 588.
Arundo — Di. 610. 619.

Betula — Di. 626.

Capparis — O. 644. — Es. 447.
Carex — E. 523. — P. 592. — A. 608. — Di. 610.
Carica — E. 527.
Carpinus — Du. 574. — Di. 620.
Carya — A. 603.
Cassandra — De. 633.
Castanea — Di. 619. 620. — Po. 630. — Pa. 635.
Ceanothus — Du. 567.
Citrus — Du. 569.
Clematis — Ea. 638.
Collinsonia — E. 542.
Conium — A. 592.
Corylus — C. 560. — Di. 619.
Cyperaceæ — P. 592.

Darlingtonia — Du. 579.
Deguelia — N. 652.
Dianthus — Di. 617.

Empetrum — E. 535.
Equisetum — A. 609.
Erica — S. 588.
Euclea — Pi. 640.
Euphorbia — H. 551. — A. 598.
Eutriana — Di. 610.
Excæcaria — Sa. 642.

Fagus — Ps. 594. — Co. 649.
Fraxinus — A. 604. — Co. 648.

Galium — E. 538.
Glycine — E. 524.
Graminaceæ — P. 592. — A. 607. — Di. 610. 611. 616. 628. — Es. 645.

Hemerocallis — E. 540.
Hyacinthus — Ai. 650.

Ilex — A. 603.
Iuglans — C. 562.
Iuncus — G. 519. — Du. 582.

Kalmia — Du. 575.

Labiatæ — Di. 619.
Lathyrus — P. 593.
Laurus — Ei. 636.
Linaria — H. 550.
Liriodendron — E. 532.

Magnolia — Du. 566. — Pr. 643.
Mangifera — C. 661.
Medicago — S. 584. — Di. 610.
Mespilus — S. 586.

Nymphæa — S. 587.

Osmunda — E. 545.

Phragmites — Di. 612. 613.
Phytolacca — E. 520. 531.
Pinus — E. 534. — D. 557. — L. 558. S. 590. — Pl. 655.
Pirus — Du. 580. — S. 591. — M. 654.
Plantago — E. 536.
Platanus — Du. 564. 565.
Populus — E. 526. — D. 555. 556.
Prosopis — Du. 581.
Prunus — D. 552.

Quercus — E. 521. — Du. 568. — S. 585. — Ps. 595. — Di. 619. 620. — Pa. 635. — Sa. 641.

Rhamnus — D. 554. — Di. 620.
Robinia — Di. 619. 620. 621.
Rumex — E. 543.

Salix — E. 528. — Du. 570. 571. — De. 631. — Pi. 639.
Sambucus — S. 589. — Di. 622. — De. 634.
Sarothamnus — A. 601.
Scirpus — Di. 629.
Silene — Di. 619.
Sorbus — D. 553.
Spartium — A. 601.
Spiræa — E. 522. 533.
Stellaria — E. 537.

Typha — E. 544.

Ulex — A. 602.
Ulmus — E. 529.
Urtica — Du. 578. — Di. 619.

Vaccinium — S. 588.
Valeriana — Ei. 637.
Verbascum — E. 539.
Vitis — E. 530.

Yucca — Du. 583. — P. 592.

Zea — Di. 615.

MELANCONIEÆ Berk.

Outl. Brit. Fungol. p. 323, emend. Sacc. Mich. II. p. 10.

Stilbosporeæ, *Coryneaceæ*, *Cytisporaceæ* Fr. p. p. — *Phragmidiaceæ*, *Nemasporeæ*, *Tubercularineæ* Bon. p. p. — *Coryneaceæ*, *Cœomaceæ*, *Phragmidiaceæ* etc. Corda p. p. — *Melanconieæ*, *Ægeriteæ* etc. Payer p. p. — *Uredineæ* Kickx p. p.

Fungi perithecio ascisque carentes, ex acervulis subcutaneis denique partim erumpentibus sæpius molliusculis constantes, sordidi, grisei v. læte colorati. Sporæ *(conidia)* basidiis variis subinde obsoletis suffultæ e strato proligero, plus v. minus evoluto, oriundæ.

Clavis analytica generum.

Sect. 1. Hyalosporæ Sacc.

Conidia globosa, ovoidea, oblonga v. breve cylindracea, continua, hyalina v. rarius dilute colorata.

A) Conidia mutica seu non aristata.

§ Acervuli inermes seu setis carentes.

I. Conidia solitaria, nec catenulata.

Haineſia. Acervuli mox erumpentes, læticolores, subtremelloidei, phyllogeni.

Glœosporium. Acervuli diu tecti, grisei v. pallidi, subceracei, phyllogeni v. caulicoli.

Myxosporium. Acervuli diu tecti, grisei v. læticolores, majusculi, subceracei, in ramis arborum parasitici.

Melanostroma. Acervuli erumpentes, subcornei, atri, discoidei, conidiis pallidis copiose obducti.

II. Conidia catenulata.

Hypodermium. Acervuli oblongi, hysterioidei, atri, duriusculi.

Myxosporella. Acervuli discoidei, læticolores, molliusculi.

Blennoria. Acervuli discoidei, fusci, compactiusculi, puccinioidei; basidia typice dichotomo-ramosissima; conidia breve bacillaria, subhyalina.

Agyriella. Acervuli depresse pulvinati, atro-nitentes; basidiorum rami pluries verticillato-ramosi, hinc capitato-conidiophori; conidia breve cylindracea.

Trullula. Acervuli depresso-conoidei, atri, perithecioidei, mox erumpentes; basidia breviuscula, simplicia v. parce ramosa; conidia oblonga v. cuboidea, hyalina v. dilute colorata.

Myxormia. Acervuli discoideo-scutellares, olivacei v. cinerei; conidia typice per isthmos catenulato-connexa.

Bloxamia. Acervuli truncati, inferne atri et solidi, superne pallidi et subevanidi; conidia subcuboidea.

§§ Acervuli margine setosi.

Colletotrichum. Acervuli fere *Glœosporii*, setulis atris (*Vermicularieæ* ad instar) cincti.

B) Conidia aristata.

Pestalozziella. Acervuli minuti, fere phyllostictoidei; conidia apice aristâ ramosâ ornata.

Sect. 2. **Scoleco-allantosporæ** Sacc.

Conidia cylindrica, nunc lónga filiformia, nunc breviora suballantoidea, continua, subhyalina.

Cylindrosporium. Acervuli subeffusi in foliis subvivis subepidermici, albi v. pallidi; conidia filiformia, sæpe tortuosa.

Cryptosporium. Acervuli figurati, sæpius saprophyti, atri v. grisei; conidia fusoideo-falcata, majuscula.

Libertella. Acervuli difformes, sæpe læte colorati, saprophyti; conidia filiformi-falcata, longa.

Nœmospora. Acervuli difformes, sæpe læte colorati, saprophyti; conidia allantoidea breviuscula.

Sect. 3. **Phæosporæ** Sacc.

Conidia globosa, oblonga v. elongata, continua, fuliginea v. olivacea.

Melanconium. Conidia in apice basidiorum solitarie acrogena, globosa vel oblonga.

Cryptomela. Conidia in apice basidiorum solitarie acrogena, fusoidea sæpe arcuata.

Thyrsidium. Conidia in apice basidiorum catenulata et verticillato-capitata, globosa v. oblonga.

Sect. 4. **Didymosporæ** Sacc.

Conidia ovoidea, subfusoidea v. oblonga, 1-septata, hyalina v. fuliginea.

Didymosporium. Conidia fusca, solitaria, h. e. non concatenata. Species saprogenæ.

Bullaria. Conidia fusca, catenulata et per isthmos hyalinos connexa. Species saprogenæ.

Septomyxa. Conidia subhyalina, solitaria, h. e. non concatenata. Species saprogenæ, rami-fructicolæ.

Marsonia. Conidia subhyalina, solitaria, h. e. non concatenata. Species biogenæ, typice foliicolæ.

Sect. 5. **Phragmosporæ** Sacc.

Conidia oblonga v. breve cylindracea, 2-pluriseptata, fuliginea v. hyalina.

§ *Phæophragmiæ:* conidiis fuligineis.

I. Conidia mutica seu non ciliata.

A) Conidia solitaria seu non concatenata.

Stilbospora. Conidia oblonga, non rostrata, mox exsiliendo atro-inquinantia; acervuli jugiter tecti.

Coryneum. Conidia oblonga, non rostrata, non effluentia nec fœdantia; acervuli erumpentes.

Scolecosporium. Conidia elongata, fusca, apice curvo-rostrata, pallidiora.

Asterosporium. Conidia stellato-lobata, lobis pluriseptatis.

B) Conidia per isthmos filiformes concatenata.

Seiridium. Conidia oblonga, fusca, isthmis hyalinis connexa.

II. Conidia hyalino-ciliata.

Hyaloceras. Conidia utrinque, incurvo-1-ciliata, fusca.

Pestalozzia. Conidia fusca, apice 1-ciliata (*Monochætia*), v. pluri-ciliata (*Eu-Pestalozzia*), rarius tota hyalina v. subhyalina (*Pestalozzina*).

§§ *Hyalophragmiæ:* conidiis subhyalinis.

Rhopalidium. Conidia longe clavata, solitaria; acervuli fusci.

Septogloeum. Conidia oblonga vel fusoidea, solitaria; acervuli plerumque pallentes.

Prosthemiella. Conidia cylindracea, basi stellatim connata; acervuli supra læticolores.

Sect. 6. **Dictyosporæ** Sacc.

Conidia oblonga, piriformia v. rhombea, pluri-septato-muriformia, fusca.

Stegonosporium. Conidia solitaria, h. e. non concatenata, olivacea v. fuliginea.

Phragmotrichum. Conidia catenato-superimposita, isthmis cylindraceis connexa, atra.

HAINESIA Ell. et Sacc. (Etym. a cl. W. J. Haines botan. americano e West Chester), *Gloeosporium* Sacc. ex p. — Acervuli subcuticulares sed mox erumpentes, pulvinati, minuti, phyllogeni, læticolores, sæpius flavo-rubentes, subtremelloidei. Conidia oblonga v. suballantoidea, continua, hyalina, in basidiis filiformibus, sæpe ramulosis fasciculatis acro-pleurogena.

1. **Hainesia rhoina** Ell. et Sacc. *Gloeosporium? rhoinum* Sacc. F. it. 3656
t. 1035. — Maculis hypophyllis subcircularibus expallentibus, atro-marginatis; acervulis innato-emergentibus, pulvinatis, subsuccineis; conidiis suballantoideis, curvulis 10-12 ≃ 3; basidiis copiose simpliciter v. bis ramosis, 56-70 μ. altis, ramulis interdum verticillatis, bacillaribus, hyalinis, coacervatis vero luteolis.

Hab. in pag. inf. foliorum Rhois glabræ, Narvesa (Treviso) Ital. bor. et New Jersey Amer. bor.

2. **Hainesia tremellina** Sacc. Mich. II. p. 168, F. it. t. 1039. — Acer- 3657
vulis hypophyllis, discoideo-convexis, mox superficialibus, succineis, 1/6 mill. diam.; conidiis fusoideo-falcatis, utrinque acutis, 8-9 ≃ 1¼ hyalinis, in basidiis filiformibus, 45 ≃ 1, acro-pleurogenis.

Hab. in foliis emortuis Aceris campestris, Conegliano (Spegazzini). — Contextus tenuissimus radiatus (an genuinus?) visus est circa acervulos.

3. **Hainesia Rubi** (West.) Sacc. *Gloeosporium? Rubi* West. Exs. n. 3658
980, Sacc. F. it. t. 1021, *Tremella foliicola* Fuck. Symb. myc. p. 402. — Acervulis subcuticularibus, mox subsuperficialibus, hypophyllis, rarius epiphyllis, rubescentibus, pulvinatis, dein fusciduli et collabascentibus; conidiis oblongis, 6-10 ≃ 2-3,5; basidiis bacillaribus furcatis vel ramulosis, conidio 5-6-plo longioribus.

Hab. in foliis Ruborum, socio *Phragmidio* et *Uredine*, in Belgio, Italia, Gallia, Germania. — Diagnoses auctorum satis differunt, tamen eandem speciem sistere videntur.

GLOEOSPORIUM Desm. et Mont. in Ann. Sc. nat. 1849, p. 295, em. Sacc. Mich. II. p. 10 (Etym. *gloios* viscosus et *spora*). — Acervuli v. nuclei sub epidermide foliorum v. caulium nidulantes, disciformes v. pulvinati, demum sæpius erumpentes, pallidi v. fusci. Conidia ovato-oblonga, rarius oblongata, continua, hyalina, sæpe tandem in cirrum v. globulum conglutinata et erumpentia. Basidia typice bacillaria v. acicularia, fasciculata. — Sub nomine *Gloeosporellæ* cl. Penzig egoque (Fung. Mortol. n. 132) *Gloeosporii* subgenus distinximus conidiis estipitatis notabile, sed, præsentibus speciebus conidia brevissime stipitata gerentibus, distinctio, usquedum species omnes plenius explorentur, non admittenda videtur.

I. *In foliis Dicotyledonearum.*

1. **Gloeosporium Martianoffianum** Thüm. Pilzfl. Sibir. n. 676. — Acer- 3659
vulis hypophyllis, gregariis, punctiformi-irregularibus, liberis, vix

elevatis, subdisciformibus, saturate fuscis, sine macula; conidiis clavatis, simplicibus, basi angustatis, vertice dilatatis truncatisve, enucleatis, 20–24 ≃ 5–6, dilute fuscescentibus; basidiis longis, inæquilateralibus v. nodulosis, subtortuosis vel inflexis, æque fuscellis.

Hab. in foliis vivis Aquilegiæ glandulosæ in monte Kerlygan Sibiriæ asiaticæ. — A *Gloeosporio Aquilegiæ* Thüm. characteribus notatis differt.

2. **Gloeosporium Aquilegiæ** Thüm. Pilzfl. Sibir. n. 141. — Acervulis amphigenis, plano-subdisciformibus, griseo-fuscis, mediis, dense gregariis in macula arescendo fusco-ochroleuca, latissime fusco-marginata; conidiis simplicibus, ellipticis, utrinque obtusatis, 12–15 ≃ 5, achrois. 3660

Hab. in foliis vivis Aquilegiæ glandulosæ, Minussinsk Sibiriæ asiaticæ.

3. **Gloeosporium Ficariæ** (Berk.) Cooke Handb. n. 1413, *Cylindrosporium Ficariæ* Berk. Ann. N. H. n. 135. — Acervulis minutis, albis; conidiis inæqualiter oblongis, leviter curvis, in cirros v. grumulos albos supra folia adhuc virentia expulsis. 3661

Hab. in foliis Ranunculi Ficariæ, frequens, in Britannia. — A vero *Cylindrosporio Ficariæ* scolecosporo omnino diversum videtur.

4. **Gloeosporium Hepaticæ** Peck 33 Rep. St. Mus. 26. — Maculis latis, irregularibus, sæpe totum folium decolorantibus, nigro-brunneis; pustulis minutis, sparsis, epiphyllis, cirris crassiusculis, in sicco carneis; conidiis oblongis vel cylindricis, hyalinis, utrinque obtusis, leniter curvatis, 15–25 ≃ 6,5–7,5, plerumque 4-nucleatis. 3662

Hab. in foliis Hepaticæ acutilobæ in montibus Helderberg Americæ borealis.

5. **Gloeosporium Haynaldianum** Sacc. et Roum. Reliq. Libert. IV. n. 174. — Acervulis sparsis, subepidermicis, dein emergenti-prominulis, disciformibus ½ mill. diam., sordide roseis; conidiis tereti-oblongis, utrinque subrotundatis v. acutiusculis, 12–15 ≃ 2,5–3 hyalinis; basidiis filiformibus fasciculatis, 31–40 ≃ 1, 5, hyalinis. 3663

Hab. in foliis Magnoliæ grandifloræ, ubi maculas ochraceas generat, in Arduennis (Libert).

6. **Gloeosporium Hamamelidis** Cooke Hedw. XII. p. 26. — Amphigenum; maculis suborbicularibus, 1 cent. latis, atrofuligineis, hinc illinc pertusis; conidiis subellipticis, obtusis, rectis vel leniter curvulis, hyalinis, 10 ≃ 2,5–3. 3664

Hab. in foliis Hamamelidis Virginicæ, in Carolina Americæ borealis.

7. **Gloeosporium concentricum** (Grev.) Berk. et Br. Ann. N. H. n. 3665
441, *Cylindrosporium concentricum* Grev. Sc. Fl. t. 27. — Acervulis minutis, albidis, concentrice dispositis, subcuticularibus; conidiis copiosis breve cylindraceis, truncatis, continuis, hyalinis, dein in grumulos minutos erumpentibus.

Hab. in foliis adhuc vivis Brassicæ in Britannia et Germania. — «Ex icone Grevillei dubia mihi species».

8. **Gloeosporium hians** Penz. et Sacc. Fung. Mortol. n. 46, tav. V. 3666
fig. 27. — Acervulis dense congregatis, majusculis, brunneis, hypodermicis, depressis, pseudo-perithecio tenui, in apice late ostiolato; conidiis oblongis, utrinque paullum attenuatis, rotundatis, eguttulatis, plasmate granuloso farctis, rectis, 19-22 ≃ 8-9, basidiis simplicibus, cylindricis, continuis, hyalinis, 10-15 ≃ 2-3.

Hab. in sepalis clausis (alabastris) Capparidis spinosæ, Mortola Ital. bor. (O. Penzig).

9. **Gloeosporium phacidioides** Speg. Nov. Add. ad Myc. Ven. n. 140, 3667
et Mich. II. p. 284. — Maculis submarginalibus, semicircularibus, pallide melleis, primo parvulis, dein totum folium occupantibus, acervulis subepidermicis atris lenticularibus, 80-90 μ. diam., hypothecio crassiusculo membranaceo-fuligineo; basidiis cylindricis quandoque fumosis, apice rotundatis 10-20 ≃ 3 ornato; conidiis cylindraceis utrinque rotundatis, rectis vel curvulis, granuloso-farctis, 8-10 ≃ 2½-4.

Hab. in foliis Helianthemi vulgaris in pascuis alpinis Duram (Zoldo, Cadore) Italiæ bor.

10. **Gloeosporium Violæ** B. et Br. Ann. N. H. n. 1703. — Maculis 3668
pallidis, demum albis; acervulis perexiguis, solitariis; conidiis aurantiacis, dein supra folia effusis.

Hab. in foliis Violæ odoratæ, Glamis Britanniæ.

11. **Gloeosporium Tiliæ** Oud. Mat. Myc. Néer. II. p. 31, t. X. f. 20, 3669
Sacc. F. ital. t. 1054. — Maculis nullis v. obsoletis; acervulis minutissimis, fuscis, tandem apice erumpentibus; conidiis ovato-oblongis, utrinque acutatis vel obtusatis, hyalinis, continuis, 11-14 ≃ 4-7, nubilosis vel guttulatis, hyalinis; basidiis subfusoideis conidium dimidium superantibus.

Hab. in foliis Tiliæ grandifoliæ, T. ulmifoliæ etc. in Hollandia, Italia, Austria.

12. **Gloeosporium Aquifolii** Penz. et Sacc. F. Mont. Gen. n, 132. — 3670

Acervulis laxe gregariis, hypodermicis, vix prorumpentibus, nigris, conspicuis, pseudo-perithecio hypharum contextu parenchymatico composito, nigrescente, haud ostiolato; conidiis pseudo-perithecii parieti insertis, muco hyalino insitis, oblongo-ellipticis, utrinque attenuatis, acutiusculis, simplicibus, hyalinis, eguttulatis, 12-14 ≃ 5-6; basidiis nullis.

Hab. in foliis siccis Ilicis Aquifolii in Monte Generoso Insubriæ (O. Penzig).

13. **Gloeosporium Hesperidearum** Catt. Sacc. F. it. t. 1186, Mic. Agrumi p. 12. — Acervulis gregariis, numerosis, sparsis in vasta macula arida foliorum vel in foliis emortuis, erumpentibus; basidiis obsoletis, fasciculatis, cylindricis, continuis, simplicibus, hyalinis vel basi dilute fuligineis, 8-12 ≃ 4-5; conidiis cylindricis, utrinque rotundatis, rectis, eguttulatis, hyalinis, 14-18 ≃ 5-6,5. 3671

Hab. in foliis languidis vel emortuis Citrorum, Messina Siciliæ (Borzì), S. Terenzo (Gibelli).

14. **Gloeosporium depressum** Penz. in Mich. II. p. 447, F. it. fig. 1185. — Acervulis in maculis aridis sparsis, hypodermicis, depressis, brunneolis, demum prorumpentibus; basidiis fasciculatis, simplicibus, hyalinis, filiformibus, 20-24 ≃ 2-3; conidiis elongato-ellipticis, hyalinis, 7-8,5 ≃ 2,5-4. 3672

Hab. in foliis languidis Citrorum, Padova (Penzig), S. Terenzo (Gibelli) in Italia.

15. **Gloeosporium Hendersonii** B. et Br. Ann. N. H. n. 1702. — Acervulis sparsis, hypophyllis, placentæformibus; conidiis oblongis, 12,5-15 μ. long., nucleo leniter colorato. 3673

Hab. in foliis Citri Aurantii in tepidariis in Britannia.

16. **Gloeosporium Aurantiorum** West. in Bull. de l'Ac. roy. des sc. de Belgique, 1851, p. 7, n. 19. — Maculis amphigenis, magnis, irregularibus, immarginatis, griseo-fuscis; acervulis minutis bullosis, albis; conidiis copiosissimis, ovoideis, hyalinis, subinde 2-guttulatis, in grumulos subcarneos ejectis. 3674

Hab. in foliis languidis Citri Aurantii pr. Namur Belgii (Limminghe). — Ita describit speciem cl. Penzig (Mich. II. p. 447) secundum adumbrationes cl. Cattanei, ex exemplaribus belgicis desumptas: acervulis amphigenis minutis, sparsis, hypodermicis, demum erumpentibus; nucleo gelatinoso; basidiis filiformibus, tenuissimis; conidiis linearibus, utrinque obtusis, hyalinis, 3 μ. long.

17. **Gloeosporium intermedium** Sacc. F. it. tab. 1043, Mich. II. p. 118. — Acervulis gregariis, punctiformibus, nigris, dein erumpentibus, 3675

1/6–1/3 mill. diam.; basidiis fasciculatis, subsimplicibus, continuis, basi fuligineis, 18–25 ≃ 4–5; conidiis elongatis, utrinque rotundatis, rectis, hyalinis, eguttulatis, 14–18 ≃ 4–6.

Hab. in foliis languidis Citri Aurantii sat frequenter in Gallia et Italia. — Inter *G. affine* et *macropus* fere medium. — Var. **subramulosum** Mich. II. p. 168, F. it. t. 1044: a typo differt basidiis simplicibus v. breviter furcatis, parce septulatis, 15–30 ≃ 3–4½, e strato proligero fuscidulo oriundis; conidiis oblongis, 15–18 ≃ 4–5, utrinque obtusiusculis, 3–4-guttulatis, hyalinis. In foliis emortuis Carludovicæ et Citrorum in calidariis horti patavini. — Var. **Epidendri**: basidiis, 28–30 ≃ 2,5–3. In radicibus aëreis Epidendri culti in Gallia. — Var. **brevipes**: basidiis 14–18 ≃ 3. In foliis languentibus Fici elasticæ in calidariis in Gallia. — Var. **Poinsettiæ**: conidiis oblongis utrinque rotundatis, 18–20 ≃ 5–6; basidiis crassiusculis brevibus, 12–15 ≃ 4, suffultis. In ramis Poinsettiæ pulcherrimæ in calidariis in Gallia.

18. **Gloeosporium macropus** Sacc. Mich. I. p. 217, F. it. t. 1033. — 3676
Maculis nullis; acervulis sparsis punctiformibus, nigrescentibus; basidiis fasciculatis, elongatis, simplicibus, continuis, hyalinis, basi fuligineis, 48–60 ≃ 3,5–5; conidiis elongatis, utrinque rotundatis, guttulatis, hyalinis, 18–21 ≃ 4–6.

Hab. in foliis languidis Hoyæ carnosæ et Citri Aurantii in frigidariis horti patavini, in scapo florigero Aloës Hanburyanæ, Mortola Ital. bor.

19. **Gloeosporium Aceris** Cooke Grev. XII. p. 26. — Hypophyllum; 3677
maculis irregularibus, cinereo-fuligineis, hinc inde pertusis; conidiis 18 ≃ 5, ellipticis, obtusis, rectis flexuosisve, hyalinis.

Hab. in foliis Aceris rubri in Carolina Amer. bor.

20. **Gloeosporium acerinum** West. Exs. n. 979, Kickx Fl. cr. Fl. II. 3678
p. 94. — Acervulis hypophyllis, fusco-rubellis, sparsis, epidermidem pallide flavidam reddentibus indeque perforantibus; conidiis subcylindricis, in cirrum pallide rubescentem erumpentibus.

Hab. in foliis Aceris Pseudoplatani in Belgio, et Aceris platanoidis, Gorizia.

21. **Gloeosporium Schweinfurthianum** Thüm. Fungi Austro-Afr. in 3679
Grev. — Acervulis epiphyllis, subgregariis, sine macula, mediis, plano-verruciformibus sublenticularibusve, dilute olivaceis, vix emersis; conidiis longe ellipsoideis, simplicibus, utrinque subobtusatis, homogeneis, achrois, 16–18 ≃ 7–8.

Hab. in foliis vivis et languidis Erodii glaucophylli in deserto ad Wadi-Dugla pr. Cairo.

22. **Gloeosporium frigidum** Sacc. Mich. II. p. 168, Fungi Ital. t. 1023. 3680
— Acervulis gregariis, amphigenis, in partibus dealbatis foliorum immersis et vix erumpentibus, subglobosis, carneis contraque lucem pellucidis; conidiis cylindraceis, curvatis; utrinque rotundatis, 22–26 ≃ 3½–4, minute 4-6-guttulatis, hyalinis; basidiis teretibus brevioribus, 12–15 ≃ 2–2½, raro sub-ramulosis suffultis.

Hab. in foliis Evonymi japonici, hiemis 1880 intensissimo frigore (usque -13 centigr.) necatis, in horto patavino Italiæ bor.

23. **Gloeosporium Mygindæ** Winter Contr. Myc. Lus. n. 785. — Acer- 3681
vulis sparsis, immersis, punctiformibus, parum concavis, demum denudatis, fusco-atris, 130–150 μ. lat., non maculicolis; conidiis oblongis, basin versus parum attenuatis, hyalinis, continuis, intus granulosis, seu 2-3-guttulatis, 14–21 ≃ 5,3–7, basidiis simplicibus, longiusculis, hyalinis suffultis.

Hab. ad folia arida Mygindæ pallentis in horto botanico Coimbra Lusitaniæ.

24. **Gloeosporium ligustrinum** Sacc. F. Gall. Ser. V. n. 2177 in Mi- 3682
scell. mycol. — Maculis foliorum amphigenis rufo-ochraceis, vix marginatis, majusculis; acervulis hypophyllis gregariis subcutaneo-erumpentibus discoideis, punctiformibus, ochraceo-fuscis; conidiis anguste fusoideis, leniter curvis, 12–16 ≃ 1,5, minute 5-6-guttulatis, hyalinis; basidiis fasciculatis exiguis filiformibus e basi stromatica fusca cellulosa oriundis.

Hab. in foliis Ligustri? Perrottetii culti, Saintes Galliæ (Brunaud).

25. **Gloeosporium Rhois** (West.) Kickx Fl. crypt, Fl. II. p. 96, *Lepto-* 3683
thyrium Rhois West. Exs. II. n. 544. — Maculis griseo-brunneis, dein subplumbeis; acervulis epiphyllis, brunneis subrotundis vel inæqualibus; conidiis clavulatis, rectis curvulisve; cirro albido, obsoleto.

Hab. in foliis Rhois speciei in horto botanico Gand Belgii. — β. **Fuckelii** Sacc., *Leptothyrium Rhois* Fuck. Symb. myc. p. 383, t. II. f. 27: conidiis anguste fusoideis, 14–15 ≃ 2. In foliis emortuis Rhois Cotini et Carpini Betuli in Rhenogovia.

26. **Gloeosporium Pseudo-phoma** Penz. et Sacc. Funghi Mortol. n. 42, 3684
tab. V. fig. 25. — Acervulis gregariis, hypodermicis, demum erumpentibus, pseudo-perithecio nigerrimo, contextu parenchymatico, haud ostiolato, 180–220 μ. diam.; conidiis breviter ellipticis, utrinque rotundatis, hyalinis, 13–16 ≃ 7–8, muco abundanti obvolutis, ipsi pseudo-perithecii parieti insertis; basidiis nullis.

Hab. in ramulis siccis Calycotomes spinosæ, Mortola Ital. bor. (O. Penzig).

27. **Gloeosporium Kurzeanum** Niessl F. Eur. n. 2471, Sacc. F. it. t. 1020, Mich. II. p. 541. — Acervulis laxe gregariis, innato-erumpentibus, sordide fusco-roseis, minutis; conidiis oblongo-cylindraceis, 18 ≃ 4, curvulis rectisve, binucleatis hyalinis; basidiis bacillaribus conidium subæquantibus, hyalinis, e strato proligero fuscello oriundis. 3685

Hab. in foliis Leguminosæ cujusdam, Calcutta Indiæ (Kurze).

28. **Gloeosporium Cytisi** B. et Br. Ann. N. H n. 1897, Grev. 1881, p. 49. — Maculis pallidis semel v. bis rubro-zonatis; acervulis minutis; conidiis minutis, ellipsoideis. 3686

Hab. in foliis Cytisi Laburni, Glamis Britanniæ. — Diagnosis citata fert: «perithecia» pro acervulis, sed talia in *Gloeosporio* non occurrunt.

29. **Gloeosporium Patella** Penz. et Sacc. F. Mortol. n. 44. t. V. f. 26. — Acervulis gregariis, nigris, epiphyllis in foliorum maculis arescentibus; conidiis oblongis, utrinque rotundatis, rectis vel leniter curvulis, eguttulatis, plasmate granuloso farctis, 12–16 ≃ 5,5–7; basidiis brevibus, simplicibus, continuis, hyalinis, cylindraceis, 10–13 ≃ 3–3,5. 3687

Hab. in foliis Hardenbergiæ ovatæ, quæ enecat, Mortola Ital. bor. (O. Penzig).

30. **Gloeosporium Trifolii** Peck, 33. Rep. St. Mus. p. 26. — Maculis suborbicularibus concentrice zonatis, brunneis; conidiis oblongis vel cylindricis, obtusis, simplicibus, hyalinis, 15–23 ≃ 4–6,3. 3688

Hab. in foliis vivis Trifolii pratensis, Albany in America boreali.

31. **Gloeosporium Cydoniæ** Mont. Syll. Cr. n. 664, Sacc. F. it. t. 1037. — Epiphyllum, maculis irregularibus confluentibus brunneis rugulosis; acervulis dense gregariis, pallidis, punctiformibus; cirris tenuissimis niveis; conidiis cylindraceis, curvulis, 15–20 ≃ 2–2½, utrinque obtusiusculis, hyalinis, basidiis teretibus dimidio brevioribus suffultis, denique protrusis. 3689

Hab. in foliis languidis Cydoniæ vulgaris in Gallia, Italia, Lusitania, Austria, Africa australi.

32. **Gloeosporium Fragariæ** (Lib.) Mont. in Kickx Fl. cr. Fl. II. p. 93, *Leptothyrium Fragariæ* Lib. Exs. n. 162. — Maculis indeterminatis, rubescentibus, epiphyllis; acervulis applanatis, rugulo- 3690

sis, nigricantibus, nitidulis (ex epidermide atrata?); nucleo griseolo; conidiis cylindraceis 4-5-guttulatis.

Hab. in foliis Fragariæ et Potentillæ in Gallia, Germania, Britannia, Belgio, America boreali. — «An *Marsoniæ Potentillæ* forma? sed conidia descripta in Kickx l. c. prorsus diversa.»

33. **Gloeosporium Sanguisorbæ** Fuck. Symb. myc. p 368, t. I. f. 34. 3691
— Hypophyllum; acervulis (perithecis?) erumpentibus, gregariis, in macula fusca, punctiformibus, hemisphæricis, siccis concavis, fuscis; conidiis oblongis, simplicibus, 8 = 4, hyalinis.

Hab. in foliis subvivis Sanguisorbæ officinalis in Rhenogovia et Sibiria asiatica.

34. **Gloeosporium Venetum** Speg. Mich. I. p. 477. — Maculis margi- 3692
nalibus, amorphis, maxmis, vel centralibus rotundis parvulis, melleis vel ochraceis, linea fusco-purpurascente cinctis; acervulis minutis, prominulis, gregariis vel solitariis, atris; conidiis ellipticocylindraceis, 7-8 = 2-2½, granulosis et guttulatis, hyalinis.

Hab. ad folia viva vel languida Rubi Chamæmori, Belluno et Conegliano Italiæ borealis.

35. **Gloeosporium tuberculariodes** Sacc. Mich. I. p. 130, F. it. t. 3693
1041. — Maculis nullis; acervulis minutissimis, gregariis, epidermide velatis, dein erumpentibus, carneolis; strato proligero crassiusculo e cellulis subrotundo-angulosis, crasse 1-2-nucleatis, dilute ochraceis conflato; basidiis cylindraceis simplicibus v. breve verticillato-ramulosis, apice incrassatis vel rarius attenuatis remote septatis hyalinis; conidiis in apice basidiorum v. ramulorum acrogenis ovato-oblongis, 12-15 = 5-8, continuis, rectis curvulisve hyalinis.

Hab. in pagina inferiore foliorum languentium Ribis aurei Berolini Germaniæ (P. Magnus). — Conidia solitaria in ramulis, subcapitata in apice basidiorum.

36. **Gloeosporium Ribis** (Lib.) Mont. et Desm. in Kickx Fl. cr. Fl. II. 3694
p. 95, Sacc. Mich. II, p. 117. F. ital. t. 1036, *Leptothyrium Ribis* Lib. Exs. n. 258. — Maculis orbicularibus, minutis, confluentibus, brunneis; acervulis epiphyllis, (ob cuticulam atratam) perithecioideis, applanatis, rufo-brunneis, intus albidis; conidiis oblongis, curvulis, 10 = 5-6, apice subrostratis, hyalinis.

Hab. in foliis Ribis rubri, R. nigri, R. acicularis in Gallia, Germania, Belgio, Italia, Britannia, Austria, Sibiria asiatica, Amer. bor. — In forma Ribis nigri americana adsunt coni-

dia 15–20 μ. l., hinc crassiora, parce curva v. utrinque æqualia et magis curva et tunc 25 μ. longa.

37. **Gloeosporium curvatum** Oud. Mat. Fl. Neerl. II. p. 28. — Maculis hypophyllis fuscescentibus; acervulis prominentibus, parvulis; conidiis mucilagine primitus obvolutis, tandem sub forma cirrorum brevium crassorum alborum erumpentibus, oblongis, fortiter curvatis sive falcatis, utrinque obtusis, 2-guttatis, hyalinis, 14–20 ≃ 5–7. 3695

Hab. in foliis Ribis nigri, Putten Hollandiæ.

38. **Gloeosporium Helicis** (Desm.) Oud. Fungi Neerl. n. 196. Sacc. F. it. t. 1026, *Cheilaria Helicis* Desm. Ann. Sc. nat. 1847, p. 27. Maculis epiphyllis, fuscis vix marginatis; acervulis lenticularibus minutis, subochraceis; conidiis oblongo-clavatis, deorsum incurvatis, intus granulosis, 22 ≃ 6–7, hyalinis. 3696

Hab. in foliis Hederæ Helicis in Gallia et Hollandia.

39. **Gloeosporium paradoxum** (De Not.) Fuck. Symb. p. 277, *Myxosporium paradoxum* De Not. Micr. ital. II. n. 10, *Fusarium pezizoides* Desm. XX. Not. (1852) pag. 19. — Maculis nullis v. obsoletis; acervulis disciformibus, gregariis, succineis, epidermide velatis, amphigenis; conidiis ovoideis, basi subtruncatis, 8 ≃ 5–6, hyalinis, basidiis cylindraceis, 12–15 ≃ 6, fasciculatis, hyalinis suffultis. 3697

Hab. in foliis Hederæ Helicis, sæpissime socio statu ejusdem ascoph. *Trochila Craterio* in Italia, Gallia, Lusitania, Belgio, Germania.

40. **Gloeosporium tineum** Sacc. Mich. I. p. 219, F. ital. t. 1055. — Maculis arescendo pallidis, variiis; acervulis hypophyllis, subochraceis, epidermide velatis; conidiis cylindraceis curvatis, 20–25 ≃ $2^1/_2$–$3^1/_2$, guttulatis hyalinis, basidiis filiformibus 15 μ. longis, fusciduli suffultis. 3698

Hab. in foliis Viburni Tini, Selva (Treviso) Ital. bor.

41. **Gloeosporium Orni** Sacc. Mich. I. p. 219, F. it. tab. 1061. — Maculis variis arescendo subochraceis, fusco-cinctis; acervulis subcircularibus epidermide (pseudo-perithecio) nigrificata, dein rimose (?) dehiscente velatis; conidiis oblongis utrinque acutatis, 7–8 ≃ 3, stipitellatis, ad medium subconstrictis, 2-nucleatis, hyalinis. 3699

Hab. in pag. super. folior. Fraxini Orni, Covolo Italiæ bor. — Ad *Marsoniam* vergit.

42. **Gloeosporium Lychnidis** Oud. Mat. Myc. Neerl. II. pag. 29 et Aanw. I. p. 3, t. XVI. f. 2. — Maculis epiphyllis fuscescentibus; 3700

acervulis sparsis, minutissimis, disciformibus, $^1/_4$-$^1/_5$ mill. diam. centro dilutioribus fere-achromis, margine saturatius coloratis; conidiis clavatis, 25 ≃ 4-5, hic truncatis hinc rotundatis, pedicellatis, hyalinis sæpe 2-guttulatis; basidiis filiformibus conidio sesquilongioribus.

Hab. in foliis Lychnidis diurnæ, Harlemmerhout Neerlandiæ. — «An forma immatura v. abnormis *Marsoniæ Delastrei?*»

43. **Gloeosporium Kalchbrenneri** Rabenh. in Kalchbr. Szep. Gomb. II. p. 276. — Acervulis conidiorum croceis, siccitate expallentibus, nitidis, subdiaphanis, diametro (plerumque 17-18 μ.) duplo longioribus, ovatis vel (sessilibus) clavæformibus, gelatinosis, pressione in guttas quasi oleosas aureas diffluentibus. 3701

Hab. in foliis Inulæ ensifoliæ in Hungaria.

44. **Gloeosporium hawaiense** Thüm. Fung. Exot. n. XVIII. in Roum. Rev. Mycol. — Acervulis epiphyllis vel amphigenis, gregariis, subdiscoideis, orbiculatis, sordide fuscis, majusculis, planis in macula irregulari vix arescendo cinerea, stellulata; basidiis brevibus, hyalinis, cylindricis; conidiis plus minusve cylindraceis, utrinque rotundato-obtusatis, rectis v. subarcuatulis, hyalinis, 14-18 ≃ 3,5-4,5. 3702

Hab. in foliis vivis Lobeliæ macrostachyæ Insula Eahu in Archipel. Hawai Ocean. Pacif. (Mann et Brigham. Com. Dr. Keck.).

45. **Gloeosporium truncatum** (Bon.) Sacc. Reliq. Lib. Ser. IV. n. 175, *Micropera truncata* Bon. Abhand. p. 133. — Acervulis erumpentibus, epidermide obscurata arcte cinctis, disco rufescenti-pallido, impolito; conidiis teretiusculis, 12-13 ≃ 2,5-3, hyalinis; basidiis subnullis. 3703

Hab. in foliis Vaccinii Vitis-idææ in Arduennis et Guestphalia.

46. **Gloeosporium alpinum** Sacc. Mich. I. p. 130, F. it. tab. 1025. — Maculis nullis; acervulis hypophyllis, epidermide tumidula velatis, variis, sordide albis; conidiis oblongo-cylindraceis, utrinque obtusiusculis, 14-15 ≃ 3-4, curvulis, quandoque versus medium tenuiter constrictis, sæpius 2-nucleatis, hyalinis, basidiis brevibus oblongis fultis. 3704

Hab. in pagina inferiore foliorum viventium Arctostaphyli alpini prope Innichen in Pusterthal Tyroliæ (Doct. Fr. Thomas in herb. Magnus).

47. **Gloeosporium? succineum** Sacc. Mich. II. p. 146. — Acervulis hypophyllis, gregariis initio epidermide velatis, mox erumpenti- 3705

superficialibus, tremelloideis, pulvinatis, succineis; basidiis dense fasciculatis oblongis crasse cylindraceis, 40-45 = 12-14, 2-3-septatis, apice eximie obtusiuscule papillatis; conidiis sphæricis, 15-20 μ. diam., flavo-aureis.

Hab. in pag. inf. Rhododendri chrysanthemi in M. Borus Sibiriæ asiaticæ. — Num conidia sint bene evoluta v. meræ plasmatis guttulæ, dijudicare nequeo; ergo de genere quoque dubium restat.

48. **Gloeosporium americanum** Speg. Fungi Arg. Pug. II. pag. 36. — 3706
Maculis epiphyllis, candidis, determinatis, parvulis, 1-3 mill. diam.: acervulis minutissimis, 70-90 μ. diam., atro-olivaceis, primo epidermide tectis, dein erumpentibus; conidiis ellipticis vel subovoideis, medio vix sinuoso-constrictis, utrinque obtuse rotundatis, 10-12 = 4-5, hyalinis, granuloso-nubilosis.

Hab. in foliis vivis Araujæ albentis, San José de Flores in Rep. Argentina.

49. **Gloeosporium affine** Sacc. Mich. I. p. 129, F. it. t. 1053. — Ma- 3707
culis arescendo dealbatis variis; acervulis sparsis, sæpe epiphyllis, initio epidermide nigricante velatis, dein cirrose erumpentibus; conidiis cylindraceo-oblongis, utrinque rotundatis, 14-20 = 4-6, nubilosis, hyalinis; basidiis filiformibus brevibus fultis.

Hab. in foliis coriaceis Hoyæ, Vanillæ etc. in horto botanico patavino (Saccardo); et in foliis Orchidearum in calidario horti botanici dresdensis (P. Magnus).

50. **Gloeosporium sphærelloides** Sacc. Mich. I. p. 92, F. it. t. 85. — 3708
Acervulis amphigenis, punctiformibus, initio epidermide velatis, nigris,; basidiis dense fasciculatis, filiformibus, septulatis, subsimplicibus, 40-50 = 3-5, fuligineo-ochraceis, sursum hyalinis; conidiis ovato-oblongis, 10-12 = 5-6, guttulatis v. nubilosis, hyalinis.

Hab. in foliis exsiccatis Hoyæ carnosæ in horto botanico patavino, et Acaciæ Melanoxyli prope Coimbra Lusitaniæ. — **majus** Penz. Michelia II. pag. 449: acervulis amphigenis, punctiformibus, initio epidermide velatis, nigris: basidiis dense fasciculatis, subsimplicibus, filiformibus, sinuosis, septulatis, fuligineis, 40-50 μ. long., 3-3,5 μ. crassis; conidiis cylindrico-elongatis, utrinque rotundatis, hyalinis, guttulatis, 16-20 μ. long., 4-4,5 μ. crassis. In foliis delapsis Citri Aurantii in frigidariis horti patavini (O. Penzig).

51. **Gloeosporium australe** Sp. F. Arg. Pug. III. n. 131. — Acervulis 3709
minutis, subepidermicis, pulvinato-erumpentibus, albo-pellucidis; co-

nidiis ellipticis v. elliptico-cylindraceis, utrinque obtusis, 5-8 ≃ 2-3, hyalinis, continuis, catenulatis, e strato proligero hyalino oriundis.

Hab. ad folia viva Physalidis hirsutæ in maculis *Entylomatis australis* en la Boca del Riachuelo Argentinæ. — Status microconidicus *Entylomatis australis* Speg.

52. **Gloeosporium arvense** Sacc. et Penz. Mich. II. p. 633. — Acervulis hypophyllis subsparsis v. gregariis, tectis subochraceis, 1/4 mill. diam.; conidiis oblongis, utrinque rotundatis, 8-9 ≃ 3,5-4, rectis, 3-guttulatis, hyalinis; basidiis fasciculatis, bacillaribus, 9-10 ≃ 2-3. 3710

Hab. in pag. inf. foliorum languidorum Veronicæ hederifoliæ, Genevæ Helvetiæ (Therry). — An diversum a *Gl. Veronicarum* mihi imperfecte cognito?

53. **Gloeosporium Veronicarum** Ces. in Rabh. F. cur. 97, Bot. Zeit. 1859, p. 629. — Acervulis subcutaneis..... cirris fugacibus..... sporulis tenuissima mucilagine conglutinatis..... 3711

Hab. in foliis subvivis Veronicæ officinalis, V. hederifoliæ in Italia boreali, Rhenogovia et Belgio.

54. **Gloeosporium Mougeotii** Desm. Ann. Sc. nat. 1851, p. 296, Sacc. F. it. t. 1047. — Maculis nullis v. obsoletis; acervulis gregariis exiguis, erumpentibus, sordide et pallide ochraceis; conidiis oblongis, minutis, 5 ≃ 1½-2, hyalinis, brevissime stipitatis, 2-guttatis. 3712

Hab. in foliis caulibusque Bartsiæ alpinæ in M. Hohneck Vogesorum.

55. **Gloeosporium nobile** Sacc. Mich. II. p. 153, F. it. tab. 1040. — Maculis amphigenis circularibus argillaceis, atro-marginatis, 4-5 mill. diam., acervulis immersis disciformibus, 1/4 mill. diam., laxe gregariis, subochraceis, tandem, epidermide operculatim disrupta, detectis; conidiis fusoideis, leniter curvis, 20-25 ≃ 6-7, deorsum acutioribus, pluriguttulatis hyalinis, basidiis bacillaribus simplicibus, furcatisve, 45-50 ≃ 2½, quandoque subseptulatis suffultis. 3713

Hab. in foliis Lauri nobilis, Vindobonæ Austriæ (Thümen).

56. **Gloeosporium pachybasium** Sacc. Mich. II. p. 117, F. ital. t. 1058. — Acervulis pulvinatis, hypophyllis, subcutaneis, dein suberumpentibus, 1/4-1/3 mill. diam., e circulari angulosis, carneolis; conidiis oblongo-ellipsoideis, 14-16 ≃ 6-8, basi apiculatis, apice rotundatis, pluriguttulatis hyalinis, in basidiis crassis obovoideis, 15-20 ≃ 10, subquaternato-acrogenis, rarius et uno alterove conidio pleurogeno. 3714

Hab. in foliis Buxi sempervirentis, Montauban Galliæ et

in Italia boreali. — Basidia subtetraspora, crassa, illa Hymenomycetum in memoriam revocantia!

57. **Gloeosporium Laporteæ** Peck 33 Rep. St. Mus. p. 26. — Maculis 3715
orbicularibus, luteo-viridibus, centro aridis et fusco-marginatis; conidiis simplicibus, globosis v. ellipticis, hyalinis, 4-6,5 μ. longis, uni-vel binucleatis, globulum pallidum formantibus.

Hab. in foliis vivis Laporteæ canadensis, Charlton America boreali.

58. **Gloeosporium nervisequum** (Fuck.) Sacc. Mich. II. p. 381, F. it. 3716
t. 1051. *Hymenula Platani* Lév. sec. Fuck., *Fusarium nervisequum* Fuck. Symb. p. 369, t. I. f. 37 (f. *Platani*). — Acervulis erumpentibus, compactis, prominulis, hypophyllis, rotundatis, ovatis oblongisve, rugulosis, in macula exarida nervisequis et nervicolis, fuscis, demum aterrimis, sæpe spurie longitudinaliter dehiscentibus; conidiis oblongo-ovatis v. obovato-piriformibus 12-15 ≈ 4-6, hyalinis; basidiis bacillaribus longis, 20-25 ≈ 2,5-3.

Hab. ad nervos foliorum languidorum Platani orientalis in Germania, Italia et Gallia. — A *Gloeosp. Platani* (Mont.) Oud. quocum junxeram (Mich. II. pag. 218), satis differt acervulis compactioribus, multo obscurioribus, magis prominentibus, nervicolis, basidiis longioribus 20-25 ≈ $2^1/_2$-3 etc. Quum cl. Montagne ad suum *Fusarium Platani* referat *Hymenulam Platani* Lév. (quam cl. Fuck. ad suum *Fus. nervisequum* duxit), de horum identitate non dubitavi; sed autopsia contrarium docuit. — Forma in foliis Quercus citatur a Fuckelio l. c. prope Œstrich Rhenogoviæ.

59. **Gloeosporium Platani** (Mont.) Oud. Mat. Myc. Neerl. II. pag. 29, 3717
Sacc. Mich. I. p. 218, F. it. t. 1059 *Fusarium Platani* Mont. Ann. 3, XI. p. 55 et Syll. Cr. n. 1090. — Hypophyllum; acervulis minutis in folio decolorato sparsis, innato-erumpentibus subhemisphæricis rufidulis; conidiis primitus pedicellatis inter formam oblongam et fusiformem admodum variis, 14-15 ≈ 5-6, minute pluriguttulatis, hyalinis; basidiis filiformibus 5-6 μ. longis.

Hab. in pagina inferiore foliorum Platani occidentalis et P. orientalis in Gallia, Italia, Belgio et Hollandia.

60. **Gloeosporium Salicis** West. Herb. crypt. Belg. n. 1269. — Epi- 3718
phyllum; acervulis tectis, confluentibus, in maculis nigris sitis: cirro brevi, curvo, albo; conidiis oblongis, leniter curvatis, continuis, utrinque 1-guttulatis.

Hab. in foliis vivis Salicis albæ in Belgio et Parenzo Italiæ borealis.

61. **Gloeosporium Tremulæ** (Lib.) Pass. in Rabenh. F. E. n. 1880 et Hedw. 1874, p. 187, *Leptothyrium Tremulæ* Lib. Ex. n. 161, *Gl. Populi-albæ* β. *Tremulæ* Sacc. Mich. I. pag. 219, *Depazea frondicola* Fr. Obs. II. p. 365 (verisimillime). — Maculis cinerescentibus oblongis v. subcircularibus, fusco-cinctis; acervulis epiphyllis v. hypophyllis, sparsis, subinde concentricis, ob epidermidem atratam perithecioideis, applanatis, olivaceo-fuscis, rugulosis, denique circumscisso-elabentibus; conidiis fusoideo-botuliformibus, curvulis, 10-15 ≃ 1,7-2; basidiis filiformibus, vix 5-6 μ. longis. 3719

Hab. in foliis Populi Tremulæ in Suecia, Gallia, Italia, Austria, Germania.

62. **Gloeosporium sibiricum** Thüm. Pilzfl. Sibir. n. 493. — Acervulis hypophyllis, dense gregariis, vix emersis, plano-convexis, griseo-fuscidulis, minutis in macula fusca, late griseo-fusco-marginata, in pagina superiore spadicea, fusco-zonata; sterigmatibus brevibus, continuis, flexuosis, hyalinis, vertice obtusis; conidiis cylindraceis, simplicibus, subrectis, utrinque obtusatis, anucleatis, 16 ≃ 3,5-4,5 hyalinis. 3720

Hab. in foliis vivis Populi Tremulæ prope Minussinsk Sibiriæ asiaticæ.

63. **Gloeosporium Populi-albæ** Desm. XXIV. Not. (1857) p. 3, *Leptothyrium circinans* Fuck. Symb. myc. p. 388, t. II. f. 26, *Gl. circinans* (Fuck.) Sacc. M. V. n. 966. — Acervulis cuticulâ atratâ tectis, hinc perithecioideis, atro-nitidis, rotundatis, sæpe confluentibus, siccis plicato-rugulosis, planis, in circulum magnum se gradatim augentem dispositis et maculam exaridam relinquentibus; conidiis fusiformibus, subcurvatis, continuis, hyalinis, 12-16 ≃ 3-4. 3721

Hab. in pag. sup. foliorum Populi albæ in Gallia, Lusitania, Italia, Germania.

64. **Gloeosporium Carpini** (Lib.) Desm. in Ann. Sc. nat. 1853, XX. p. 214, Sacc. F. it. tab. 1021, *Leptothyrium Carpini* Lib. Exs. n. 256. — Hypophyllum, minutissimum, rugosum, fuscum; maculis brunneo-olivaceis, irregularibus, non limitatis; pulpa albida; conidiis cylindraceis, falcatis, 10-15 ≃ 0,5, hyalinis. 3722

Hab. in foliis languidis v. subvivis Carpini Betuli in Gallia, Germania, Italia boreali et Austria.

65. **Gloeosporium Robergei** Desm. Ann. Sc. nat. 1853, XX. p. 214, Sacc. F. ital. t. 1049. — Maculis subcircularibus, ochraceis, majusculis; acervulis paucis, minutis, ochraceo-fuscis, cuticulâ velatis dein erumpentibus; conidiis ellipsoideo-oblongis, 12-15 ≃ 8-9, dilutissime fumosis, nubilosis. 3723

Hab. in maculis foliorum Carpini Betuli in Gallia, Italia, Belgio.

66. **Gloeosporium Ostryæ** Thüm. Contr. myc. Lus. n. 238. — Acer- 3721
vulis epiphyllis, gregariis, minutis, sublenticularibus, nigro-fuscis in macula arescendo ferruginea, irregulari, non limitata, subtus dilute fusca; basidiis longis, arcuatis, dilute fuscidulis, fasciculatis; conidiis cylindrico-ellipsoideis, utrinque rotundatis, bi-quadriguttulatis, subrectis vel arcuatulis, continuis, hyalinis, 5-7 = 2,5-3.

Hab. in foliis vivis Ostryæ virginicæ in horto botanico Coimbra Lusitaniæ (Moller).

67. **Gloeosporium Coryli** (Desm.) Sacc. Mich. II. p. 117, F. it. tab. 3725
1019. *Cheilaria Coryli* Desm.? in Ann. Sc. nat. 1853, p. 226. — Maculis ochraceis, epiphyllis; acervulis hypo- raro epiphyllis, innato-prominulis, subgregariis, minutissimis, rotundato-oblongis, pallide fuscis, dein brunneis; conidiis oblongis, utrinque rotundatis, 14-15 = 6, medio quandoque lenissime coarctatis, 2-guttatis, hyalinis, basidiis brevissimis, obtusis, basi olivascentibus, suffultis.

Hab. in foliis languidis Coryli Avellanæ in Gallia. — Cfr. *Labrella Coryli.*

68. **Gloeosporium perexiguum** Sacc. Mich. II. p. 116, F. ital. tab. 1050. 3726
— Maculis parvis, irregularibus, rufis, dein perforatis; acervulis epiphyllis, pulvinatis, minutissimis, 100 μ. diam., mox erumpentibus, subsuccineis, conidiis ellipsoideo-oblongis, 5-6 = 2-3, hyalinis.

Hab. in foliis nondum emortuis Coryli Avellanæ pr. Saintes Galliæ (Brunaud).

69. **Gloeosporium Fuckelii** Sacc. Mich. I. pag. 218. *Gl. Fagi* Fuck. 3727
Symb. App. I. p. 52 (1877), nec *Gl. Fagi* (Desm. et Rob., 1853). Acervulis epiphyllis in macula exarida irregulari, gregariis, minutis, planis, foliorum epidermide lacerata cinctis; conidiis lanceolatis, quandoque antice obtusis, rectis, continuis, hyalinis, 6-8 = 3.

Hab. in foliis adhuc vivis Fagi sivaticæ in Rhenogovia. — Folia a fungillo invasa colore atro-purpureo mox inficiuntur, qua nota species statim ex longinquo innotescit.

70. **Gloeosporium Fagi** (Desm. et Rob.) West. Not. VII. p. 12. Sacc. 3728
Fungi ital. t. 1022, Oud. Mat. Myc. Néer. II. p. 29, t. X. fig. 15, *Gloeosp. exsiccans* Thüm. Symb. Mycol. Austr. I. n. 7 (1877), non *Gloeosp Fagi* Fuck. Symb. App. I. p. 52 (1871) [nunc *Gl. Fuckelii*], *Labrella Fagi* Desm. et Rob. in Ann. Sc. nat. 1853, p. 225. — Maculis subcircularibus in foliorum pagina superiore fuscescentibus, in pagina inferiore olivaceo-virentibus, acervulis

minutis, prominulis, submelleis; conidiis oblongo-ovoideis, rarius subrhombeis, 15–20 ≃ 7–8, minute 2–3-guttulatis, hyalinis, basidiis fasciculatis, cylindraceis, conidii dimidiam longitudinem subæquantibus, suffultis.

Hab. in pag. inferiore foliorum Fagi silvaticæ in Gallia, Italia, Belgio, Austria.

71. **Gloeosporium quernum** Harkn. F. Calif. p. 12. — Amphigenum, in cirros minutos exsiliens; conidiis hyalinis ellipsoideis v. oblongis, 1–3 vacuolos (guttulas?) continentibus, 12–18 ≃ 4–6. 3729

Hab. in foliis gemmisque Quercus agrifoliæ, quæ arescunt, in Golden Gate Park Californiæ.

72. **Gloeosporium quercinum** West. Exs. n. 981, Kickx Fl. cr. Fl. II. p. 95. — Maculis hypophyllis brunneo-virescentibus; acervulis brunneo-rubellis, epidermidem bullosam efficientibus; conidiis ovoideo-oblongis in cirrum flavo-aurantiacum ejectis, hyalinis, 5–6 ≃ 2,5; basidiis bacillaribus conidium æquantibus. 3730

Hab. in foliis languidis quercinis in Belgio, Germania et Gallia.

73. **Gloeosporium umbrinellum** B. et Br. Ann. N. H. 1866, n. 1141, t. III. f. 5. — Maculis irregularibus, angulosis minutis brunneis; conidiis oblongis, 10–15 μ. longis, 2-nucleatis, subhyalinis, in cirros pallidos irregulares denique erumpentibus; basidiis longis, sæpe furcatis. 3731

Hab. in foliis dejectis Quercus, Batheaston Britanniæ. — Secundum Kickx et Lamb. non diversum a *Gl. quercino;* mihi tamen distinguendum videtur.

74. **Gloeosporium Betularum** Ell. et Mart. Amer. Nat. 1882, p. 1002. — Maculis badio-brunneis, subrotundis, 2–3 mill. diam., nigro-marginatis; pustulis brunneis, amphigenis, 120–140 μ. diam., dein matrice secedentibus et foveolam cupuliformem atram relinquentibus; conidiis hyalinis, obovatis, 9–10,5 ≃ 6; basidiis hyalinis. 3732

Hab. in foliis Betulæ nigræ, Betulæ lentæ, Bethlehem Americæ borealis.

75. **Gloeosporium Betulæ** (Lib.) Mont. Ann Sc. nat. 1849, pag. 296, Sacc. F. ital. t. 1028, *Leptothyrium Betulæ* Lib. Exs. n. 163. — Maculis subcircularibus, olivascentibus v. fusco-nigricantibus; acervulis epiphyllis, depressis, atris, demum erumpentibus, epidermide in lacinias 2–4 lacerata; conidiis bacillaribus v. clavulatis, 13–16 ≃ 2, hyalinis brevissime stipitatis; cirris albidis. 3733

Hab. in pag. sup. foliorum languidorum Betulæ albæ in

Belgio, Gallia, Germania, Italia. — *Gloeosp. Betulæ* Fuck. Symb. p. 368, t, I. f. 52 eamdem speciem sistit.

76. **Gloeosporium betulinum** West. Exs. n. 978 Kickx Fl. cr. Fl. II. p. 94. — Acervulis hypophyllis, rubiginosis; maculis rufo-ochraceis. in pag. infer. foliorum, sed saturatioribus et fere nigricantibus in pag. sup.; conidiis ovoideis; cirris imperfectis. 3734

Hab. in foliis Betulæ albæ et B. verrucosæ in Belgio (West) et Italia bor. (Passerini).

77. **Gloeosporium cylindrospermum** (Bonord.) Sacc. F. it. tab. 1027, *Leptothyrium cylindrospermum* Bon., Fuck. Symb. p. 120. — Maculis epiphyllis fusco-castaneis; acervulis punctiformibus, atris, applanatis; conidiis cylindraceo-fusoideis, 10-15 ≃ $2^1/_2$-3, rectis v. leniter curvis, hyalinis. 3735

Hab. in foliis subvivis languidisve Alni glutinosæ in Germania et Italia.

78. **Gloeosporium alneum** West. Exs. n. 977, Lamb. Myc. Belg. III. Sacc. Mich. II. p. 563. — Acervulis hypophyllis punctiformibus, subochraceis epidermidem vage rubiginoso-maculantibus; conidiis ovato-oblongis, curvulis, 4-6 ≃ 2-2,5; basidiis obclavatis, 8-10 ≃ 1,5-2, hyalinis. 3736

Hab. in foliis languidis Alni glutinosæ et A. incanæ in Belgio et Italia boreali.

79. **Gloeosporium leptostromoides** Sacc. et Penz. Mich. II. p. 633. — Acervulis parallelis, linearibus, 1-2 mill. long., atris, dein rimose apertis (hysterioides); conidiis teretiusculis, lenissime curvis utrinque obtusiusculis, 35-40 ≃ 1,5-2, pluriguttulatis, hyalinis; basidiis filiformibus breve vage ramulosis, 3737

Hab. in acubus Pini maritimæ dejectis prope Rouen Galliæ (Malbranche).

II. *In ramis, caulibus Dicotyledonearum.*

80. **Gloeosporium Riessii** Schulz. et Sacc. Micr. Slav. n. 62, Schulz. Ill. fung. Slav. n. 99. — Acervulis epidermide velatis, denique erumpentibus, pulvinato-applanatis, $^1/_5$-$^1/_3$ mill. diam., albidis, intus subochraceis; conidiis allantoideis, utrinque rotundatis, vehementer curvis, 18-25 ≃ 4, hyalinis; basidiis bacillaribus subæquilongis, hyalinis. 3738

Hab. in ramis corticatis Cydoniæ vulgaris, pr. Vinkovce Slavoniæ.

81. **Gloeosporium phæosorum** Sacc. Mich. I. p. 260, F. ital. tab. 1038. 3739

— Acervulis ramulicolis, gregariis epidermide velatis, globosis v. oblongis, $^1/_4$ mill. diam., nigricantibus, tandem irregulariter erumpentibus; conidiis fusoideis majusculis, 25–28 ≃ 8, raro oblongis, chlorino-hyalinis, granulosis, basidiis, filiformibus, brevibus, quandoque furcatis fultis.

Hab. in sarmentis corticatis Ruborum prope Alençon in Gallia, (C. C. Gillet). — Æquo fere jure ad gen. *Myxosporium* duci potest.

82. **Gloeosporium tortuosum** (Thüm. et Pass.) Sacc. Mich. II. p. 117, F. ital. tab. 1031, *Fusarium tortuosum* Thüm. et Pass. Pilz. Weinst. p. 51, tab. 1031. — Acervulis sparsis, subcutaneo-erumpentibus, discoideo-oblongis, sordide griseo-rufis; conidiis cylindraceo-falcatis, utrinque rotundatis, 15–20 ≃ 3, nubilosis, hyalinis, basidiis teretibus, 15 ≃ $2^1/_2$ suffultis. 3740

Hab. in sarmentis Vitis viniferæ in agro parmensi Italiæ (Passerini) et prope Rouen Galliæ (Letendre).

83. **Gloeosporium sarmenticium** Mont. in Castagne, Supplém., p. 58, Syll. crypt. n. 663. — Punctiforme, fuscum, maculis orbicularibus gregariis haud confluentibus; conidiis oblongo-fusiformibus guttulas binas globosas foventibus. 3741

Hab. in sarmentis Vitis viniferæ, apud Montaud in Gallia (Castagne).

84. **Gloeosporium Mollerianum** Thüm. Contr. Myc. Lusit. n. 231. — Acervulis sparsis, raro confluentibus, applanato-disciformibus, sordide fusco-purpureis, plus minusve orbiculatis, mediis; conidiis bacillari-ellipsoideis, rectis vel minime arcuatis, utrinque subobtusatis, simplicibus, uniquadriguttulatis, achrois, 14–18 ≃ 4–5; basidiis fasciculatis, tenuibus, brevibus, curvatis, hyalinis. 3742

Hab. in caulibus emortuis Phytolaccæ decandræ Choupal prope Coimbra Lusitaniæ (Moller).

85. **Gloeosporium valsoideum** Sacc. Mich. II. p. 381. F. it. f. 1048, *Hymenula ramulorum* Pass. Ancora sulla Nebbia d. Gelsi (1884) p. 3. — Acervulis erumpentibus, rufo-lutescentibus, epidermide lacerata cinctis, $^3/_4$–1 mill. d., disco ruguloso; conidiis copiosissimis, ovoideis, vel oblongo-ovoideis, 11–13 ≃ 4, nubilosis, hyalinis, basidiis fasciculatis deorsum incrassatis, 18–20 ≃ 4, æque nubilosis, hyalinis suffultis. 3743

Hab. in ramulis junioribus Platani occidentalis in horto patavino, et in agro parmensi Ital. bor. (Bizzozero, Passer.). — A *Gl. nerviseque* acervulis multo majoribus habituque valsoideo mox

distinguendum; characteribus internis tamen proxime cognatum. — *Myxosporium carneum* (Lib). Thüm. sistit fere formam evolutiorem speciei præsentis, utramque vero coadunare non potui.

86. **Gloeosporium angulatum** (Cooke) Sacc. *Discella angulata* Cooke F. Texas p. 142. — Gregarium, tectum, epidermidem angulato-findens; conidiis fusoideo-elongatis, hyalinis, 20 ≃ 4. 3744

Hab. in ramis arborum, Galveston Texas Amer. bor.

87. **Gloeosporium pyrenoides** Sacc. et Malbr. Mich. II. p. 633. — Acervulis subgregariis, epidermide velatis, nigricantibus, depressis, $^1/_3$-$^1/_4$ mill. diam.; conidiis cylindraceo-curvis, utrinque obtusiusculis, 28 ≃ 4, biguttulatis, hyalinis; basidiis fasciculatis brevibus. 3745

Hab. in caule emortuo Libanotidis montanæ, pr. Rouen Galliæ (Malbranche). — Habitus fere pyrenomycetoideus, unde nomen.

88. **Gloeosporium? aurantiacum** (Link.) Sacc. *Cryptosporium aurantiacum* Link in Wallr. Fl. cr. n. 1597. — Conidiis aurantiacis hypophloeodeis curvis compactis, aurantiacis, sub epidermide grumulos protuberantes dein irregulariter confluentes perficientibus. 3746

Hab. ad caules exsiccatarum herb. elatiorum, Umbelliferarum præprimis in agro wratislaviensi (Link).

III. *In fructibus et gallis Dicotyledonearum.*

89. **Gloeosporium Lindemuthianum** Sacc. et Magnus Mich. I. p. 129, F. ital. t. 1032. — Maculis epicarpicis, rarius caulo-phyllogenis, subrotundis, arescendo infuscatis, initio rufo-cinctis; acervulis sordide albis in media macula epidermidem pustulatim inflantibus dein erumpentibus; sporophoris fasciculatis, cylindraceis, 45–55 long., simplicibus; conidiis acrogenis, oblongis rectis curvulisve utrinque subrotundatis, 15-19 ≃ $3^1/_2$-$5^1/_2$, intus granulosis, hyalinis. 3747

Hab. in leguminibus adhuc vivis, raro caulibus foliisque Phaseoli vulgaris in Germania (Lindemuth etc.) Italia, Gallia, Britannia, Amer. bor. frequens et noxium. — An *Septoria Leguminum* Desm. (non ejus var. β.) X. Not. p. 10 (1843) sistat hujus *Gloeosporii* statum juvenilem, dijudicare nequeo; certe descriptio l. c. longe abhorret. Multo propius accedit *Gloeosporium fructigenum* Berk.

90. **Gloeosporium Leguminis** C. et Harkn. in Grev. 1880, pag. 7. — Tectum, sparsum; conidiis ovalibus, hyalinis, in massam gelatinosam effluentibus, 12 ≃ 6 3748

Hab. in leguminibus in California. – An affine *Gloeosp. Lindemuthiano?*

91. **Gloeosporium Leguminum** (C.) Sacc. *Discella leguminum* Cooke F. Texas, p. 142. — Congestum; pustulus irregularibus, maculam nigram efformantibus, demum confluentibus; conidiis ellipticis vel piriformibus, 1-nucleat.s, hyalinis, 12-15 ≃ 6. 3749

Hab. in leguminibus Prosopidis, Galveston, Texas Americæ borealis. Sub *Discula* n. 3581 quoque descripsi. — An potius affine *Gl. Lindemuthiano?*

92. **Gloeosporium Capsularum** C. et Hark. in Grevillea. — Gregarium, punctiforme, ore fisso-lacerato; conidiis cylindraceis utrinque obtusis, gracilibus, rectis, continuis, hyalinis, 18-20 ≃ 2,5, in grumulos pallidos mox erumpentibus. 3750

Hab. in capsulis emortuis Eucalypti in California Amer. bor.

93. **Gloeosporium fructigenum** Berk. Gard. Chron. 1856, p. 245 cum icone, Sacc. F. it. t. 1042. — Acervulis concentricis, sordide roseis, nunc poro simplici nunc laciniato erumpentibus, pulvinulatis; conidiis oblongis vel cylindraceis, sæpe curvulis, 20-30 ≃ 5-6, granulosis, hyalinis; basidiis subæquilongis, simplicibus, rarius furcatis, continuis suffultis. 3751

Hab. in fructibus putridis Piri communis in Britannia et Italia.

94. **Gloeosporium versicolor** B. et C. North Amer. Fungi n. 503. — Maculis reticulatis griseis, 2-3 cent. lat.; acervulis erumpentibus; conidiis oblongis clavatisque hyalinis, nubilosis, 10 μ. longis (vel in alio specimine, usque 20 μ. longis). 3752

Hab. in fructibus Mali in Carolina infer. Amer. bor. — A *Gloeosp. fructigeno* habitu omnino diversum.

95. **Gloeosporium læticolor** Berk. Gard. Chron. 1859, p. 604. — Maculis depressis, centro albicantibus, nigro-marginatis; acervulis circinantibus subroseis; conidiis oblongis, 16-17 μ. longis, plasmate utrinque retracto; cirris pallide roseis. 3753

Hab. in fructibus Persicæ in Britannia.

96. **Gloeosporium phomoides** Sacc. Mich. II. p. 540 et F. it. t. 1060. — Acervulis innato-erumpentibus, fuscis, pulvinatis; conidiis oblongo-clavatis, deorsum abrupte attenuatis, apice rotundatis, 10-12 2,5-3, biguttulatis, hyalinis; basidiis bacillaribus, fasciculatis, 20-21 ≃ 1,5, hyalinis e strato proligero celluloso fusco oriundis. 3754

Hab. in epicarpio fructuum Lycopersici esculenti, Sermide (Mantova) Ital. bor. (Magnaguti).

97. **Gloeosporium ampelophagum** (Pass) Sacc. Mich. I. p. 217 *Ramularia ampelophaga* Pass. Nebb. Moscat. 1876, *Phoma uvicola* Arcang. p. p., non B. et Br. — Maculis seu pustulis subcircularibus, sæpe confluentibus, baccarum epidermidem strataque corticalia occupantibus et arescendo indurantibus atque rufo- vel fuligineo-nigrificantibus, ad centrum (e conidiis exsilientibus) griseo- vel roseo-pruinosis; acervulis sub epidermide nidulantibus, minutis, dense gregariis, strato proligero pulvinato minute parenchymatico, hyalino v. dilute fumoso, cellulis superficialibus vertice breve apiculato sporigeris; conidiis ex oblongo ellipsoideis v. ovoideis, 5-6 ≃ 2½-3½, 2-guttulatis, hyalinis. 3755

Hab. in baccis, rarius in foliis et sarmentis adhuc vivis plurium varietatum, præcipue fructu albo, Vitis viniferæ, quas maculat, deformat, corrumpit in toto agro Veneto, copiosius in planitie, nec non in Gallia, Austria, Germania. — In iisdem *Gloeosporii* pustulis quandoque observavi *Fusisporium Zavianum* Sacc. F. ital. t. 44. nec non *Tubercularium ampelophilum* Sacc. Vaj. Vit. l. c. pag. 494, utrumque probabiliter cum *Gloeosporio* metagenetice conjunctum.

98. **Gloeosporium carpogenum** Cooke in Grevillea. — Innatum, sparsum, cuticulâ tectum, demum perforatum; conidiis elongato-ellipticis, hyalinis, 13-18 ≃ 3,5, in cirros albidos exeuntibus. 3756

Hab. in fructu Æsculi californicæ in Sierra Nevada Californiæ.

99. **Gloeosporium lagenarium** (Pass.) Sacc. et Roum. in Rev. Mycol. 1880, p. 201, not. 5, pl. IX. fig. 1. *Fusarium lagenarium* Pass. Erb. critt. ital. II. n. 148, Sacc. Myc. Ven. 1041, *Gl. reticulatum* Roum. ibid. p. 169-172, nec *Fusarium reticulatum* Mont. Ann. Sc. nat. Bot. II. XX. p. 379, pl. 16, fig. 3 (ubi conidia delineantur falcato-fusoidea, 4-guttata et dein 3-septata. — Acervulis subcutaneo-erumpentibus, sæpius circinantibus, minutis, pulvinulatis, subroseis; conidiis ovato-oblongis, quandoque inæquilateralibus, 16-18 ≃ 5-6, continuis, nubilosis, hyalinis, basidiis tereti-fusoideis, 15-20 ≃ 3-5, hyalinis, fasciculatis suffultis. 3757

Hab. in epicarpio, rarius in ipso caule Cucumeris Melonis et Colocynthidis, Parma, Treviso, Padova in Italia bor. et Paris et Toulouse Galliæ, frequens et valde noxium. — *Fusarium cyclogenum* meum (Myc. Ven. p. 569 et Fung. Ven. Ser. V. p. 197) nil est, ut nunc opinor, nisi genuinum *Fusarium reticulatum* Mont., intermixto *Gloeosporio lagenario*. Nec negarem utrumque invicem metagenetice connexum esse.

100. **Gloeosporium Cucurbitarum** B. et Br. Linn. Trans. II. p. 68. — 3758
Maculis læte aurantiacis depressis cirriferis; conidiis clavatis, breviter stipitatis, 10–22 μ. longis.

Hab. in epicarpio Cucurbitæ, Brisbane Australiæ. — An diversum a *Gloeosp. lagenario?*

101. **Gloeosporium orbiculare** Berk. in Just. B. Jahr. 1876, p. 1274, 3759
Cylispora orbicularis Berk. Ann. N. H. n. 106, t. VII, f. 6, *Myxosporium orbiculare* Berk. Outl. p. 325. — Plagulas orbiculares formans; acervulis confluentibus uno alterove poro communi erumpentibus; conidiis exiguis, oblongis, pallide vinosis, in cirros tenues expulsis.

Hab. in fructu Cucurbitarum in Britannia.

102. **Gloeosporium epicarpii** Thüm. Symb. myc. Austr. VII. n. 70. — 3760
Maculis numerosis plus minusve orbiculatis vel ellipticis subdepresso-scutelliformibus, griseo-fuscis, exaridis, indeterminate angusteque rufo-fusco-marginatis; acervulis sparsis epidermide tectis demum perforantibus conico-pustulatis, nitide nigricantibus, minutis; conidiis fusiformibus utrinque subacutatis, 12 ≃ 4,5, vel curvato-ellipsoideis, utrinque subrotundatis, 12 ≃ 6-7, semper 3-guttulatis, guttulis magnis, hyalinis; basidiis fasciculatis, hyalinis, cylindricis, brevibus.

Hab. in epicarpio adhuc vivo Juglandis regiæ pr. Tolmino in Istria (Bolle).

103. **Gloeosporium conigenum** Sacc. et Roum. Mich. II. p. 633. — 3761
Acervulis subcutaneis, denique rimose parce erumpentibus, intus subolivaceis; conidiis globulosis, 5–6 ≃ 4, basi subattenuatis, hyalinis, basidiis teretibus, 15 ≃ 3–3½, apice rotundatis suffultis e basi sporigera cellulosa dilute lutescente oriundis.

Hab. in squamis strobilorum Abietis excelsæ in Arduennis (Libert).

104. **Gloeosporium Gallarum** Ch. Rich. in Roum. Rev. Myc. II. p. 91. 3762
Maculis irregularibus, latis, confluentibus, nigris, nitidis, rugulosis; acervulis conicis, punctiformibus; cirris niveis; conidiis albis, cylindricis utrinque obtusis, 14 μ. long., basidiis inæqualibus suffultis, 3–5-guttulatis.

Hab. in gallis quercinis, Saint-Amand Galliæ.

IV. *In Monocotyledoneis et Acotyledoneis.*

105. **Gloeosporium punctiforme** Sacc. et Ell. Mich. II. p. 574. — Acer- 3763
vulis laxe gregariis subcutaneis, fuscis, mediocribus, ½ mill. diam.,

centro epidermidem perforantibus; conidiis ovato-oblongis, biguttulatis, hyalinis, 5-6 ≃ 3-3,5; basidiis e strato proligero celluloso stramineo-fuligineo oriundis, acicularibus, 15-20 ≃ 2, guttulatis, hyalinis.

Hab. in foliis languidis Phormii tenacis pr. Philadelphiam Amer. bor. (Ellis).

106. **Gloeosporium lineolatum** Sacc. Mich. II. p. 146, F. it. t. 1045. — Acervulis parallele digestis, sublirelliformibus, erumpentibus, 1/2 mill. long. 1/8 mill. cr., nigris; conidiis cylindraceo-falcatis, utrinque obtusiusculis, 25 ≃ 3 1/2-4, hyalinis, basidiis brevibus, bacillaribus e basi proligera fuliginea oriundis suffultis. 3764

Hab. in foliis Xerotis longifoliæ ex Nova Hollandia (herb. horti patav.).

107. **Gloeosporium cinctum** B. et C. North Am. Fungi n. 504. — Acervulis minutis gregariis epidermide nigrificata cinctis; conidiis oblongis utrinque obtusis, subinde curvulis, intus granulosis, 10-15 ≃ 2 1/2-3. 3765

Hab. in Orchideis in calidario cultis, Massachusetts Americæ borealis (Russell).

108. **Gloeosporium Thümenii** Sacc. *Glocosp. concentricum* Thüm. Contr. Fungh. Lit. n. 258, nec Berk. et Br. — Acervulis epiphyllis, concentrice dispositis, gregariis, lenticularibus, griseo-fusciduli, submagnis, in macula plus minusve sinuosa, arescendo dilute ochracea, indistincte zonata, late viridi-griseo-cincta; basidiis fasciculatis, brevibus, flexuosis, clavato-cylindraceis, apice obtusis, hyalinis; conidiis clavatis, utrinque rotundato-truncatis, vertice angustatis, grosse bi-guttulatis, 12-15 ≃ 5-6 hyalinis. 3766

Hab. in foliis vivis Alocasiæ cucullatæ in calidariis Strazig. in Littorali austriaco.

109. **Gloeosporium Phægopteridis** Pass. Micr. ital. bor. n. 17 in Roum. Rev. mycol. — Maculis irregularibus sordide luteis; acervulis minimis epiphyllis, fila candida, longa cirrosa ejicientibus; conidiis oblongis, crasse fusiformibus, attenuato-stipitatis, rectis vel basi curvis, integris, hyalinis, episporio tenui, endoplasmate eximie granuloso, 28-40 ≃ 10-11, (dempto basidio). 3767

Hab. ad frondes Polypodii Phægopteridis in Apennino parmensi (Lago santo) Ital. bor.

110. **Gloeosporium Pteridis** Harkn. F. Calif. p. 12. — Hypophylla, totamque frondis paginam infer. occupans, in cirros crassos exsiliens; conidiis obovatis v. ellipsoideis, hyalinis, 10-24 ≃ 6-10. 3768

Hab. in fronde Pteridis aquilinæ, Berkeley Californiæ. — Frondem contortam reddit.

MYXOSPORIUM Link, Spec. Plant. Fungi II. pag. 99 (Etym. *myxa* mucus et *spora*). — Acervuli seu nuclei sub arborum peridermio nidulantes, perithecio carentes, sæpius madore molliusculi, pallidi v. rubentes; conidia ovoidea, hyalina v. pallide colorata. Basidia typice bacillaria.

1. **Myxosporium incarnatum** (Desm.) Bon. Handb. p. 56, Sacc. Mich. I. p. 116, F. it. t. 1073, *Nemaspora incarnata* Desm. Næm. t. VI. f. 2 (1830). — Acervulis epidermide velatis, varie extensis, applanatis v. vix tumidulis, incarnatis; conidiis obovoideis v. obpiriformibus, 15–20 ≃ 8–10, granulosis, dilute carneis; basidiis filiformibus, 20–24 ≃ 2, suffultis. 3769

   Hab. in ramis corticatis Gleditschiæ Triacanthi, Salicis albæ, Rhamni et Populi fastigiatæ in Italia, Gallia, Germania, Belgio. — ***M. Roumegueri** Sacc. Mich. II. p. 354. Conidiis oblongo-ellipsoideis, 25–27 ≃ 8–10, nubilosis hyalinis, basidiis teretibus 20 ≃ 2 suffultis. A typo differt præcipue conidiis non piriformibus et paullo longioribus. — In cortice Cytisi Laburni, Nérac in Gallia austr. (Roumeguère). Cfr. F. it. t. 1074.

2. **Myxosporium Russellii** (B. et Br.) Sacc. *Nemaspora Russellii* B. et C. North Amer. Fungi n. 497. — Acervulis gregariis, epidermide pallida ferme tectis; conidiis fusiformibus subobliquis, 10–13 μ. longis; pedicellis hyalinis conidium æquantibus. 3770

   Hab. in ramis Robiniæ, New England in Amer. septent.

3. **Myxosporium coloratum** (Peck) Sacc. *Melanconium coloratum* Peck, Torr. bot. Club. 1883. p. 74. — Acervulis minutis, leniter prominulis; stromate minuto, viridi-luteo; conidiis oblongis v. ovato-oblongis, leniter curvulis, subhyalinis, 12–15 ≃ 7,2–8, in massam rubram expulsis. 3771

   Hab. in cortice Liriodendri Tulipiferæ in Pensylvania.

4. **Myxosporium Piri** Fuck. Symb. p. 399. *Cytispora Piri* Fuck. En. Nass. p. 52. — Peritheciis (?) subsenis nigris; cirris globuliformibus albis; conidiis globosis ovoideisve, 1–2-guttulatis, hyalinis, 20 ≃ 10. 3772

   Hab. in ramis Piri communis in Nassovia.

5. **Myxosporium prunicolum** Sacc. et Roum. Reliq. Lib., Ser. IV. n. 170, f. 49. – Acervulis laxe gregariis, subcutaneo-erumpentibus, pulvinatis, transverse oblongis, prominulis, $^3/_4$–1 mill. d., intus ochra- 3773

cec-fuscis; conidiis oblongo-ellipsoideis, utrinque rotundatis, 14 ≃ 4; basidiis..... non visis.

Hab. in ramis corticatis Prunorum in Arduennis (Libert).

6. **Myxosporium Rosæ** Fuck. Symb. myc. p. 399. — Pustulis majusculis, atris, in ostiolum conicum, obtusum, perforatum, atrum attenuatis, primo tectis, demum epidermide fissa circumdatis; gelatina fluxili, grisea; conidiis oblongo-ovatis, rectis, vel perparum curvatis, 12 ≃ 4, hyalinis. 3774

Hab. in ramis siccis Rosæ caninæ pr. Œstrich Rhenogoviæ.

7. **Myxosporium Tulasnei** Sacc. Cfr. Syll. I. pag. 609 ut st. conid. *Diaporthes* [Chor.] *longirostris*. — Acervulis siccis, unicellularibus, sub corticis epidermide nidulantibus, demum erumpentibus, extus intusque sordide albis; conidiis lineari-oblongis, subcurvatis non guttulatis, 18–25 ≃ 2,5–3. 3775

Hab. in ramis crassioribus corticatis Aceris Pseudoplatani in Gallia et Germania. — «An *Cryptosporium?*».

8. **Myxosporium nitidum** B. et C. North Amer. Fung. n. 501. — Acervulis gregariis, intus atris, extus aurantiacis, epidermide e conidiis oblongis minutissimis aurantiâ tectis. 3776

Hab. in ramis Corni alternifoliæ in Virginia, New England, Pensylvania.

9. **Myxosporium australe** Speg. Fungi Arg. Pug. IV. n. 308. — Acervulis aurantio-carneis, primo subepidermicis, dein erumpenti-superficialibus, late gregariis, orbicularibus, 0,5–1 mill. diam., sæpius ob diffluentiam confluentibus, et matricem strato latissimo, præcipue per corticis rimas excurrente, pulchre flavo-roseo vestientibus; conidiis globosis, e mutua pressione irregulariter atque obtuse angulato-polygonis, 12–22 ≃ 10–15, hyalinis. 3777

Hab. ad truncos et ramos vivos Colletiæ ferocis ad paludes subsalsas «Cangrejales» dictas, prope promontorium «Cabo S. Antonio» in Argentina.

10. **Myxosporium Rhois** (B. et C.) Sacc. *Nemaspora Rhoidis* B. et C. North Amer. Fungi n. 496. — Pustulis basi dilatatis, cortice arcte cinctis extus nigris, intus pallidis; conidiis oblongis hyalinis, 13–15 ≃ 3,7–4, utrinque obtusis. 3778

Hab. in ramis Rhois, Maine Amer. bor. (J. Blake).

11. **Myxosporium Ulmi** (Oud.) Sacc. *Discella Ulmi* Oud. Hedw. 1883, p. 116. — Acervulis plurimis gregariis, superficiem internodiorum ultimorum ramorum annuorum occupantibus, dein, epidermide rupta, phacidioideo-emergentibus, maculas læte coloratas formanti- 3779

bus; basidiis variæ longitudinis, exilissimis, hyalinis, simplicibus vel ramosis; conidiis hyalinis, ovalibus vel obovatis, nonnumquam obliquis, 14-16 ≃ 8-9, protoplasmate exilissime granuloso repletis.

Hab. in ramulis Ulmi, Amsterdam in Hollandia.

12. **Myxosporium hypodermium** Sacc. *Cryptosporellæ hypodermiæ* st. conid. Fuck. Symb. p. 192. — Acervulis intus gelatinosis albis; cellulis simplicibus, sub epidermide nidulantibus; conidiis ovatis cum guttula oleosa magna et episporio crasso, hyalinis, 24 ≃ 16, in stipitum simplicium apicibus. 3780

Hab. in ramis corticatis siccis Ulmi campestris in Germania. — «An *Fusicoccum?*».

13. **Myxosporium populinum** Sacc. Mich. II. p. 116. — Acervulis pulvinatis, epidermide tumidula velatis, 1-2 mill. diam., aurantiacis; conidiis subglobosis v. ellipsoideis, 13-15 ≃ 10-11, basi subapiculatis, nubilosis, hyalinis, basidiis filiformibus 15-25 ≃ 1½ suffultis. 3781

Hab. in ramis Populi fastigiatæ prope Rouen Galliæ (Letendre). — Cfr. F. ital. fig. 1075.

14. **Myxosporium Ellisii** Sacc. *Melanconium hyalinum* Ellis, in Torr. bot. Club. vol. IX. n. 11, p. 135. — Acervulis subpellucidis inter fissuras corticales nascentibus; conidiis ovato-piriformibus, 11-13 ≃ 7,5-8. 3782

Hab. in ramis Populi italicæ, Decorah, Jowa, Amer. sept.

15. **Myxosporium Tremulæ** Sacc. et Roum. Reliq. Libert. Ser. IV. n. 171. f. 50. — Acervulis laxe gregariis, subcutaneo-erumpentibus, intus succineis, ¾ mill. diam.; conidiis fusoideis, utrinque acutis, rectis, 10 ≃ 2,5, hyalinis. 3783

Hab. in ramis corticatis Populi tremulæ in Arduennis.

16. **Myxosporium Populi-tremulæ** (Lamb.) Sacc. *Gloeosporium Populi-tremulæ* Lamb. Fl. myc. Belg. III. p. 181. — Acervulis minutis, albidis, epidermide demum scissa tectis; conidiis ovali-oblongis, continuis, pedicellatis, dein in cirrum albidum exsilientibus. 3784

Hab. in ramis dejectis Populi tremulæ pr. Verviers Belgii.

17. **Myxosporium salicinum** Sacc. et Roum. Reliq. myc. Lib. Ser. IV. n. 164, f. 52. — Acervulis gregariis sub-cutaneis, disciformibus depressis, ¾ mill. diam., intus subsuccineis; conidiis breve fusoideis 12-14 ≃ 4, subinde inæquilateralibus, utrinque obtusiusculis, granulosis, hyalinis. 3885

Hab. in ramulis salicinis in Arduennis (Libert).

18. **Myxosporium salicellum** Sacc. et Roum. Reliq. myc. Lib. Ser. IV. n. 165. — Acervulis gregariis pulvinatis, subcutaneo-erumpen- 3786

tibus, prominulis, vix $^1/_2$ mill. diam., intus albo-ceraceis, farctis; conidiis tereti-oblongis, utrinque obtusis, 10–12 ≃ 2, rectis, hyalinis.

Hab. in ramulis salicinis in Arduennis (Libert).

19. **Myxosporium Millardetianum** Sacc. et Roum. Reliq. myc. Libert. Ser. IV. n. 166, f. 51. — Acervulis globoso-depressis, gregariis, $^1/_2$ mill. d., subinde linea nigrescente (*diaporthoidea*) cinctis, intus succineis; conidiis oblongo-fusoideis, utrinque obtusiusculis, rectis, 10–11 ≃ 3,5, hyalinis; basidiis brevissimis. 3787

Hab. in ramulis salicinis in Arduennis (Libert).

20. **Myxosporium deplanatum** (Lib.) Sacc. Mich. II. p. 354, *Didymosporium deplanatum* Lib. Exs. ined. — Acervulis circularibus subepidermicis, carnosulis, subolivaceis, nigro-limitatis; conidiis tereti-ellipticis, utrinque obtusiusculis, 10–14 ≃ 3–4, continuis (rarissime uniseptatis), fumose hyalinis. 3788

Hab. in ramulis emortuis Carpini Betuli et Coryli Avellanæ in Arduennis (Libert). — An stat. conid. *Anthostomellæ nitidulæ* Sacc.?

21. **Myxosporium sulphureum** Sacc. *Diaporthes* (Chorostates) *sulphureæ* st. conid. Fuck. Symb. p. 126, Sacc. Syll. I. p. 625. — Acervulis sub corticis epidermide nidulantibus, latissime conicis, orbicularibus, 2–2$^1/_2$ mill. latis gelatina grisea, homogenea repletis, disco centrali, erumpente, orbiculari, applanato seu valde convexo, pulverulento, amœne flavo, demum perforato et massa gelatinosa, diaphana, fusca, expulsa; conidiis late fusiformibus, quandoque inæquilateralibus, continuis, 1–2-guttulatis, 12–16 ≃ 5–6, hyalinis. 3789

Hab. in ramis corticatis Coryli Avellanæ in Germania, Helvetia, Gallia et Italia.

22. **Myxosporium fuscum** Bon. Abh. Geb. d. Myk. II. p. 128. — Acervulis subconvexis, ostiolo simplici pertusis; sacculis rotundis, lentiformibus, dilute fuscis, muco pallido farctis, papilla conica epidermidem perforantibus; conidiis ovatis, minoribus et majoribus mixtis. 3790

Hab. in ramis siccis Coryli in Germania.

23. **Myxosporium Marchandianum** Sacc. et Roum. Reliq. myc. Lib. Ser. IV. n. 169, f. 54. — Acervulis gregariis, subcutaneo-erumpentibus, intus sordide roseis, 1 mill. diam.; conidiis oblongo-ellipsoideis, utrinque rotundatis, 12-13 ≃ 4, hyalinis. 3791

Hab. in ramis corticatis Coryli (ut videtur) in Arduennis (Libert). — β. **quercinum** S. et R. l. c.: acervulis extus fuscis, intus sordide roseis; conidiis 12–14 ≃ 3. In ramis quercinis in Arduennis (Libert).

24. **Myxosporium album** (Pr.) Sacc. *Nemaspora alba* Pr. F. Ho- 3792
yersw. n. 323. — Acervulis (peritheciis?) difformibus, membranaceo-tenuibus, apice papillatis, pertusis, in cortice immersis; nucleo candido; basidiis brevibus; conidiis ovatis, guttulatis.

Hab. in ramis exsiccatis Coryli, Hoyerswerda. — «An *Fusicoccum?*».

25. **Myxosporium griseum** (Per.) Sacc. *Cytispora grisea* Pers. Syn. 3793
p. 110, Corda Ic. III. p. 26, f. 68. — Acervulis subcutaneis depresso-conicis, carnosis, pallidis; conidiis oblongis hyalinis, granulosis, 22–25 ≃ 8–9; basidiis filiformibus, ramulosis, continuis, hyalinis.

Hab. in ramulis Coryli Avellanæ in Germania, Bohemia et Anglia.

26. **Myxosporium carneum** Lib. Exs. ined. n. 882, Thüm. Hedw. 1880, 3794
p. 180, Sacc. F. it. t, 1076. — Acervulis subcutaneo-erumpentibus, pulvinatis, subroseis, majusculis, epidermide demum cinctis; conidiis fusoideis, utrinque obtusiusculis, subinde inæquilateris, 15–17 ≃ 3,5–4,5, hyalinis, 2-guttatis; basidiis acicularibus, deorsum incrassatis, 15 ≃ 2,5–3.

Hab. in ramis corticatis Fagi in Arduennis (Libert). — β. **sticticum** Karst. Symb. XV. p. 159: acervulis elongatis, rarius ellipsoideis v. orbicularibus, peridermio demum rima longitudinali dehiscente tectis, applanatis, flavidis; conidiis elongatis v. oblongatis, rectis, 9–11 ≃ 2–3. — Ad ramos Fraxini excelsioris prope Mustiala Fenniæ.

27. **Myxosporium minutulum** Sacc. Fungi Ven. Ser. V. n. 269 (*Micro-* 3795
pera), — Acervulis e cortice transverse rimose erumpentibus, vix ½ mill. latis, pallide carneis, inferne lutescentibus; conidiis fusoideis utrinque acutis, 15–16 ≃ 4, rectis vel raro lenissime curvis, 2–4-guttulatis, hyalinis, in basidiis filiformibus brevibus acrogenis.

Hab. in cortice Castaneæ vescæ, Selva (Treviso) Ital. bor.

28. **Myxosporium Taleola** Sacc. *Diaporthes* (Chrost.) *Taleolæ* st. ma- 3796
croconid. Fuck. Symb. App. I. pag. 312. — Acervulis suborbicularibus planiusculis, carnosulis, intus roseolis; conidiis ovato-ellipsoideis, utrinque obtusiusculis plerumque rectis, 16 ≃ 8..

Hab. in ramis quercinis in Rhenogovia.

29. **Myxosporium Lanceola** Sacc. et. Roum. Reliq. myc. Lib. Ser. IV. 3797
n. 168, f. 48. — Acervulis gregariis, subcutaneo-erumpentibus, pulvinatis, 1 mill. d., nucleo subcarneo fusco-cincto, disco pallido; conidiis fusoideis utrinque acutis, rectis curvulisve, 20–22 ≃ 4, intus granulosis, hyalinis; basidiis bacillaribus dimidio brevioribus.

Hab. in ramis corticatis Quercus, Betulæ in Arduennis (Libert).

30. **Myxosporium ovatum** (Pr.) Sacc. *Nemaspora ovata* Pr. F. Hoyersw. n. 328. — Stromate partito, atro, corneo, irregulariter conico; papillis atris; peritheciis (nucleis?) labyrinthiformibus, confluentibus, albis; pulpa alba; basidiis filiformibus; conidiis ovatis, subapiculatis, hyalinis albis. 3798

Hab. in cortice Betulæ, Hoyerswerda. — « An *Fusicoccum*? »

31. **Myxosporium viride** (B. et C.) Sacc. *Nemaspora viridis* B. et C. North Amer. Fungi n. 498. — Acervulis truncatis prominentibus; conidiis viridulis, intus granulosis ellipticis v. elliptico-oblongis, 15 = 7, e pedicellis elongatis hyalinis oriundis. 3799

Hab. in ramis Betulæ in America boreali.

32. **Myxosporium tumidum** (Bon.) Sacc. *Achroomyces tumidus* Bonord. Handb. p. 135, fig. 231. — Acervulis albidis carnosulis, 2 mill. cr., depressis, epidermide tectis dein laciniatum scissa cinctis; basi sporigera minute cellulosa; basidiis initio fasciculatis, septatis, pluries ramosis, apicibus rotundatis, dein acutatis conidiaque cylindracea 3-guttata gerentibus. 3800

Hab. in ramis Betulæ in Germania.

33. **Myxosporium bellulum** (Pr.) Sacc. *Nemaspora bellula* Pr. F. Hoyersw. n. 33. — Acervulis conicis corticem tollentibus; stromate simplici centro columellam magnam conicam fuscam apice nigram efficiente; nucleo pulposo, albo; basidiis continuis, filiformibus, sæpe furcatis; conidiis oblongis, pellucidis, albis; episporio hyalino, basi hylo instructo, nucleo turbido. 3801

Hab. in ramis alneis, Hoyerswerda.

34. **Myxosporium brachysporum** (B. et C.) Sacc. *Nemaspora brachyspora* B. et C. North Amer. Fungi n. 499. — Acervulis elevatis, obtusis, sparsis, liberis; conidiis curvulis reniformibus, 15 = 7. 3802

Hab. in corticibus in America boreali.

35. **Myxosporium macrosporum** Dur. et Mont. Flore Alger. I. p. 331, Mont. Syll. n. 1109. — Acervulis punctiformibus, albidis, tremelloideis; conidiis magnis, oblongis, hyalinis, muco concolore conglobatis, 40 = 10-15, levibus. 3803

Hab. ad folia Citri Aurantii locis humidis delapsa in Monte Bou-Zarèah, prope Alger. (Durieu). — « An potius *Glœosporium*? ».

36. **Myxosporium croceum** (Pers.) Link Sp. pl. Fungi II. pag. 99, Corda Ic. fung. I. p. 1, fig. 6, *Nemuspora crocea* Pers. Syn. 3804

p. 109? Desm. Næm. t. VI. fig. 3. — Acervulis erumpentibus nudisve, aurantiacis, nitidis; cirris confertis inæqualibus flavo-croceis; conidiis subrotundis concoloribus, muco conglutinatis, 20-24 *μ*. diam. intus granulosis.

Hab. in ramulis dejectis corticatis v. decorticatis Fagi, Quercus lusitanicæ, et in cortice arborum variarum in Britannia, Gallia, Italia, Lusitania, Austria et Amer sept. — Dubium est mihi speciem hanc, saltem italicam, nil esse nisi *Enteridii* statum immaturum. Cfr. Mich. I. p. 434.

37. **Myxosporium dracænicolum** B. et Br. Ann. N. H. n. 1896. — 3805
Acervulis aurantiacis; conidiis ovoideis subhyalinis, 8,5 × 5.

Hab. in foliis Dracænæ cultæ in Britannia et valde noxium. — Socia adest *Diplodina dracænicola*.

38. **Myxosporium Musæ** B. et C. North Amer. Fungi n. 502. — Acer- 3806
vulis minutis gregariis, pallide aurantiis, dein obscurioribus minusque conspicuis; conidiis oblongis, 7-8 × 2.

Hab. in fructibus Musæ in Carolina super. (Curtis).

MELANOSTROMA Corda Icon. I. p. 5, p. 85 (Etym. *melas* niger et *stroma*). — Stroma immersum planum vel discoideum, corneum, strato conidiorum diffluente tectum. Conidia continua, diaphana, in basidiis minutissimis acrogena. — Conidia valde copiosa et forte initio catenulata; sed talia videre non licuit.

1. **Melanostroma minutum** Corda Icon. Fung. I. p. 5, f. 85. — Acer- 3807
vulis atris, placentiformibus, strato conidiorum albo-incarnato, diffluente; conidiis minutis fusiformibus, utrinque acutis, diaphanis.

Hab. in ramulis arborum, Prag Bohemiæ.

2. **Melanostroma fusarioides** Corda in Sturm. Crypt. III. f. 61. — 3808
Acervulis stictiformibus, subcutaneo-erumpentibus, dein subpezizoideis, atris; conidiis cylindraceis, utrinque obtusis, hyalinis, 11-12 × 3, stratum album subgelatinosum supra stroma formantibus; basidiis perexiguis papilliformibus.

Hab. in ramis corticatis Salicum prope Karlstein Bohemiæ, et in petiolis foliorum Populi in Thuringia (Fleischhak).

HYPODERMIUM Link Spec. Pl. Fung. II. p. 88 (Etym. *hypo* sub et *derma*). *Schizoderma* Fr. Orb. I. p. 194, nec Auct. — Acervuli subcutaneo-erumpentes, sæpe elongati, atri. Conidia ovato-oblonga continua, hyalina in catenulas sat longas digesta, ex strato proligero

celluloso olivaceo-fusco oriunda. — Fructificatio in plerisque speciebus nondum mihi rite cognita.

1. **Hypodermium sparsum** Link Sp. pl. Fungi II. p. 88, *Schizoderma sparsum* (Link) Duby Bot. gall. II. p. 885. — Acervulis subcutaneo-erumpentibus, oblongis, pulvinatis, atris, epidermide scissa cinctis; conidiis ovato-oblongis, 10-20 ≃ 6-8, utrinque obtusiusculis, 4-6-guttulatis, hyalinis in catenulas sat longas digestis, ex strato proligero celluloso, olivaceo-fusco oriundis. 3809

   Hab. in foliis Pini silvestris et Abietum in Gallia et Germania.

2. **Hypodermium sulcigenum** Link Sp. Pl. Fungi II. p. 88, *Schizoderma sulcigenum* Duby Bot. gall. II. p. 885. — Acervulis linearibus oblongisque, primum epidermide elevata tectis, dein epidermide rupta sulcos replentibus fuscis. 3810

   Hab. ad folia viva et sicca Pini silvestris, P. pumilionis, P. maritimæ in Gallia, Germania et Italia bor. — Epidermis dein rumpitur et fovea oritur, tandem ad 20 mill. longa, intus conidia conglomerata continens.

3. **Hypodermium nervisequum** Link Sp. Pl. Fungi II. p. 89, *Schizoderma nervisequum* Duby Bot. gall. II. p. 885. — Acervulis linearibus nervisequis hypogenis initio epidermide nitida tectis dein erumpentibus; conidiis ..... ad latus acervuli frequenter sparsis. 3811

   Hab. ad folia Abietum in Alsatia (Nestler).

4. **Hypodermium Schizoderma** Sacc., *Schizoderma hypodermoides* Kunze in Fic. Fl. Dresd. II. p. 310. — Acervulis minutis, oblongis, subdiscoideis, atris, erumpentibus, subpulveraceis; conidiis subglobosis. 3812

   Hab. in asseribus vetustis in Germania.

5. **Hypodermium effusum** Schw. Syn. Amer. bor. n. 2956. — Acervulis tenuibus effusis, folium plerumque transversim maculantibus, nigrofuscis. 3813

   Hab. in foliis dejectis Pini Strobi, Bethlehem Amer. bor.

MYXOSPORELLA Sacc. Mich. II. p. 381 (Etym. a *Myxosporio*, cui analogum genus). — Acervuli subcutanei, vix erumpentes, subgelatinosi, perithecio carentes, læte colorati. Conidia ovata vel oblonga, continua diaphana, in catenulas digesta basidiisque teretiusculis suffulta. — Est quasi *Myxosporium*, conidiis vero catenulatis, nec solitariis.

1. **Myxosporella miniata** Sacc. Mich. II. p. 381, F. ital. tab. 1072. 3814
Acervulis subcircularibus, convexiusculis, ¾ mill. d., amœne miniatis; conidiis ellipsoideis, utrinque rotundatis, 16-20 ≃ 10-12, e roseo hyalinis eguttulatis, in catenulas breves sat persistenter connexis, basidiis teretiusculis, simplicibus furcatisve, parce septatis, 20-40 ≃ 5-7, subroseis suffultis.

Hab. in ramulis corticatis Platani occidentalis in horto botanico patavino Ital. bor. (Bizzozero).

BLENNORIA Fr. S. M. III. p. 480 (Etym. a *blenna* mucus). — Acervuli disciformes v. pulvinati, erumpentes. Conidia cylindracea, truncata, typice longe catenulata, hyalina. Basidia typice prælonga et ramosissima, apicibus in conidia abeuntibus. — In nonnullis speciebus de conidiorum catenulis nullum verbum fit; hinc incertum est, an huc vere spectent. — Ad *Agyriellam* accedit.

1. **Blennoria Buxi** Fr. Syst. Orb. I. p. 366 et S. M. III. p. 480, Sacc. 3815
Mich. II. p. 356, F. it. t. 1092. — Acervulis amphigenis dein erumpentibus, epidermideque laciniata cinctis, compactiusculis, argillaceo-fuscis, ¾-1 mill. d., basidiis prælongis, filiformibus, iterato dichotome ramosis, sursum in conidia cylindrica, utrinque truncata, 12-15 ≃ 2½-3, biguttulata, hyalina, catenulata abeuntibus.

Hab. in foliis languidis Buxi sempervirentis in Gallia, Germania et Belgio.

2. **Blennoria Rubi** Mont. Cent. n. 37, in Ann. (1837), 2, VIII. p. 360, 3816
et Syll. n. 1099. — E fibris lignosis canescentibus erumpens; acervulis atris punctiformibus apice planis modiceve concaviusculis; conidiis pedicellatis in gelatina sub aqua celeriter diffluenti, cylindricis minutissimis utrinque truncatis.

Hab. ad ramulos Rubi dejectos decorticatosque circa Andegavum Galliæ (Guépin). — «An conidia vere catenulata?».

3. **Blennoria alba** Preuss F. Hoyersw. n. 164. — Gregaria, alba, sub- 3817
rotunda, minuta; stromate fusco, pulvinato, carnoso; conidiis cylindricis, parallelis assurgentibus, utrinque truncatis, pellucidis inæqualibus, guttulis oleosis repletis.

Hab. in ligno putrescente, Hoyerswerda.

4. **Blennoria Umbellulariæ** Cooke et Hark. Calif. F. in Grev. — Acer- 3818
vulis discoideis, atris, convexis, subgregariis, erumpentibus; hyphis bis vel tri-chotomis, erectis, hyalinis; conidiis cylindraceis, terminalibus, utrinque obtusis, continuis, hyalinis, 35-40 ≃ 4.

Hab. in ramis Umbellulariæ in California Amer. bor.

5. **Blennoria Rusci** Rabenh. D. Cr. Fl. n. 419. — Acervulis brunneo- 3819
atris, applanatis, subcircularibus vix 1 mill. latis, compactiusculis, denique inæqualibus; conidiis utrinque rotundatis.

Hab. in pag. inf. rarius et in sup. Rusci aculeati in Italia superiore (Rabenhorst).

6. **Blennoria novissima** Rabenh. Fungi europ. exs. n. 2698. — Acer- 3820
vulis subcutaneis, per epidermidem in tubulum productis, globosis, atris; conidiis minutissimis, $2 \simeq 1$.

Hab. in pinnis foliorum Cycadis revolutæ senio dealbatis in horto botanico neapolitano (Cesati).

AGYRIELLA Sacc. Misc. Myc. I. p. 20. (Etym. ab *Agyrio* cui habitu similis), *Agyrium* Lib. ex parte. — Acervuli erumpentes, pulvinati, gelatinoso-indurati, nigri. Basidia prælonga, fasciculata, sursum ramosa, ramis pluries verticillato-ramulosis, hinc capitato-conidiophoris. Conidia acrogena, oblongo-cylindracea, subhyalina.

1. **Agyriella nitida** (Lib.) Sacc. *Agyrium nitidum* Lib. Cfr. Sacc. Syl- 3821
loge Fung. II. p. 317. — Acervulis majusculis nitidis, depresso-pulvinatis; basidiis 150–200 μ. longis, quandoque in fasciculos coalescentibus; conidiis subcylindraceis, curvulis, $3\text{-}4 \simeq 1/2$, cum basidiis e hyalino dilutissime olivaceis.

Hab. in sarmentis Rubi in Gallia et Germania.

TRULLULA Ces. Bot. Zeit. 1852, p. 397 (Etym. a *trulla* vasculum), *Cesatia* Rabenh. in H. Myc. n. 1443, *Hormococcus* Preuss Linnæa 1852, p. 739, *Endhormidium* Auersw. Hedw. 1869, p. 89. — Acervuli subcutanei, sed mox erumpentes, discoideo-pulvinati v. conoideo-depressi, atri, compacti, sæpe perithecioidei. Conidia oblongo-cylindracea, continua, hyalina v. olivacea, catenulata. Basidia longa, bacillaria, ramosa v. simplicia, dense fasciculata. — Species nonnullæ lignicolæ a *Melanconieis* abhorrent, sed ob intimam cum ceteris affinitatem separare nolui.

I. *Eu-Trullula.*

Basidia ramulosa vel simplicia; conidia olivacea vel fuscella.

1. **Trullula olivascens** Sacc. Mich. I. p. 94 et II. p. 285, Fungi ital. 3822
p. 91 (*Hormococcus*). — Peritheciis (spuriis?), sparsis vel subcæspitulosis, innato-erumpentibus e globoso conoideis vertice applanatis, astomis, quandoque (collabascendo?) disciformibus, atris; basidiis dense fasciculatis filiformibus, simplicibus, furcatis vel fasci-

culato-ramosis, 25-30 ≃ $1^3/_4$-2, septulatis, hyalinis, apice in conidia cylindracea, 3-6 ≃ $1^1/_2$-$2^1/_2$, utrinque obtusa, continua, olivacea abeuntibus.

Hab. in ramis corticatis putrescentibus Vitis viniferæ, Paliuri aculeati, Paulowniæ imperialis, Lauri nobilis, Persicæ vulgaris, Populi nigræ, Rubi imperialis, Citrorum nec non in fructibus Robiniæ et Paulowniæ, Selva, Padova, Conegliano Italiæ bor. et in Argentina Amer. austr.

2. **Trullula hysterioides** Speg. Mich. I. p. 478 (*Hormococcus*). — 3823
Acervulis ligno dealbato innatis, (initio epidermide tectis?) oblongo-hysteriiformibus, laxe gregariis, atris, parallelis, 1-$1^1/_2$ ≃ $^1/_4$-$^1/_3$ mill.; basidiis dense fasciculatis, filiformibus, ramulosis, septulatis, 40-50 2-3, fuscidulis, apice conidia catenulata, cylindracea, utrinque truncata, 3-8 ≃ 2-$2^1/_2$, fuscidula gerentibus.

Hab. in sarmentis putridis Rubi fruticosi, Conegliano Italiæ borealis.

3. **Trullula Fraxini** (Bon.) Sacc. *Cesatia Fraxini* Bon. Handb. p. 286. 3824
— Acervulis minutis, atris, erumpentibus, perithecio carentibus; conidiis cylindricis, obtusis, concatenatis, in massam griseam, subvitream ejectis.

Hab. in ramis Fraxini in Germania.

4. **Trullula tropica** (Auersw. et Rabenh.) Sacc. *Endhormium tropicum* A. et R. in Hedw. 1869, p. 89. — Acervulis ceraceis irregularibus, astomis, subcutaneo-erumpentibus, atris, rugulosis; conidiis moniliformiter catenulatis, angulato-subglobosis, fuscis, 10 μ d. 3825

Hab. in Podocarpo chilena in Valdivia (W. Lechler).

II. *Cesatia* Sacc.

Basidia simplicia; conidia hyalina.

5. **Trullula nitidula** Sacc. Mich. II. p. 285 (*Hormococcus*). — Acervulis pulvinatis, depressis, $^1/_3$-$^1/_2$ mill. diam.; initio albo-griseis, dein nigricantibus, levibus, nitidulis; basidiis dense fasciculatis, bacillaribus, 150 ≃ 2-$2^1/_2$, continuis, deorsum subhyalinis, sursum olivaceis, cuboideo-guttulatis; conidiis ex interiore apice basidiorum catenulatim exsilientibus, breve cylindraceis, utrinque truncatis, 4 ≃ 2, minute guttulatis, hyalinis. 3826

Hab. in ligno Piri Mali et Citri Aurantii, Padova et Selva Italiæ bor. — In forma **Citri**, teste Penz. in Mich. II. p. 451, conidia metiuntur 3-4 ≃ 2-2,5 et ex ipso apice basidiorum oriuntur.

6. **Trullula Spartii** Rabenh. in Kl. H. M. II. n. 752, *Cesatia Spartii* 3827

Rabenh. Kl. H. M. n. 1443. — Acervulis tenuissime membranaceis, entophleodeis; basidiis filiformibus, simplicibus; conidiis oblongis vel cylindraceis utrinque truncatis; obtusangulis, simplicibus, hyalinis, levibus.

Hab. in ramis Spartii in agro dresdensi Germaniæ.

7. **Trullula turbinata** (B. et C.) Sacc. *Cesatia turbinata* B. et C. 38 28
North Amer. Fungi n. 505. — Acervulis minutissimis, turbinatis, basi angustioribus, apice convexis, epidermide dein rupta cinctis; basidiis fasciculatis; conidiis moniliformiter concatenatis (ut in *T. Spartii*).

Hab. in ramis Kerriæ japonicæ in Carolina inferiore.

8. **Trullula convexula** (C. et E.) Sacc. *Myxormia convexula* C. et Ellis 3829
in Grevillea. — Erumpens, atro-brunnea; acervulis orbicularibus convexis, intus olivaceis; conidiis concatenatis, minimis, ellipticis, hyalinis, 7 ≃ 4.

Hab. in ramulis junioribus Robiniæ, New Jersey Amer. bor.

9. **Trullula? conica** Preuss F. Hoyersw. n. 304 (*Hormococcus*). — 3830
Acervulis subconicis, atris, corneis, papillatis; nucleo albo; basidiis vel floccis longis, in conidia obovata continua secedentibus, albis.

Hab. ad ligna putrescentia, Hoyerswerda.

10. **Trullula heterospora** Preuss F. Hoyersw. n. 50 (*Hormococcus*). 3831
— Acervulis corneis, folio insertis, apice perforatis, fusco-atris; pulpa sporulosa per ostiolum in cirrum expulsa; basidiis vel floccis longis, in conidia cylindrica, continua secedentibus, albis.

Hab. in foliis Visci, Hoyerswerda.

III. *Hormococcus* Preuss p. p.
Basidia ramosa; conidia hyalina.

11. **Trullula Populi** Preuss F. Hoyersw. n. 48 (*Hormococcus*). — A- 3832
cervulis ovatis, seu elongatis, corneis, atris, glabris, subnitentibus, stromati insidentibus; nucleo albo, gelatinoso; basidiis vel floccis longis ramosis; conidiis cylindricis, albis, minimis, numerosissimis.

Hab. in cortice Populi, Hoyerswerda.

12. **Trullula Rosæ** Preuss F. Hoyersw. n. 49 (*Hormococcus*). — A- 3833
cervulis tenuibus, atris, in cortice gregarie insidentibus; nucleo albo, subgelatinoso; basidiis vel floccis longis, ramosis; conidiis cylindricis, albis, minimis, numerosissimis.

Hab. in cortice Rosæ, Hoyerswerda.

13. **Trullula papillata** Preuss F. Hoyersw. n. 305 (*Hormococcus*). — 3834
Acervulis ovatis corneis, atris, subcylindrico-papillatis; nucleo ro-

seo, gelatinoso; floccis conidiorum repetito-ramosis; conidiis cylindricis, albis, cum plurimis guttulis oleosis.

Hab. in caulibus herbarum majorum, Hoyerswerda.

IV. *Species dubiæ.*

14. **Trullula Leguminum** Ces. Bot. Zeit. 1852, pag. 287. — Acervulis..... conidiis obscure biseptatis. 3835

Hab. in leguminibus prope Vercelli Italiæ borealis.

15. **Trullula Oreoselini** Ces. Bot. Zeit. 1852, p. 287. — Acervulis..... conidiis moniliformiter concatenatis. Totus caulis primitus pustulis farinaceis obtectus, quarum centrum serius perforatur. 3836

Hab. in caule Oreoselini prope Vercelli Italiæ borealis.

MYXORMIA B. et Br. Ann. N. H. n. 447 (Etym. *myxa* mucus, et *hormos* catena). — Acervuli hyphis dense compactis marginati, erumpenti-superficiales, disciformi-scutellati. Conidia tereti-oblonga, per isthmos seu filamenta brevia invicem connexo-catenulata. Basidia bacillaria, septulata. — Habitus hinc *Myrothecii* illinc *Excipulæ* sed conidia catenulata.

1. **Myxormia atro-viridis** B. et Br. Ann. N. H. n. 447, t. XII. f. 9, Bon. Abhandl. II. p. 97. — Acervulis subscutellatis, erumpenti-superficialibus, sparsis, minutis, levibus, hyphis elongatis dense compactis ambientibus; basidiis filiformibus septulatis; conidiis tereti-oblongis, per isthmos tenues catenulato-connexis, sæpius 2-guttulatis, muco obductis, subolivaceis. 3837

Hab. in foliis emortuis graminum in Britannia et in sarmentis corticatis Rubi in Alabama Amer. bor. — Catenulæ conidiorum subinde duæ ex uno basidio.

2. **Myxormia hypospila** Cooke in Grevill. XII. p. 28. — Hypophylla *Hypospilam* simulans; acervulis ellipticis, cinereis, stellato- v. dentato-apertis, cupuliformibus, disco nigro; conidiis concatenatis, ovalibus, hyalinis, 5 ≃ 3. 3838

Hab. in foliis Diospyri virginianæ in Amer. sept. — « An *Trullulæ* affinior? ».

BLOXAMIA B. et Br. Ann. N. H. 1854, p. 468, t. XVI, f. 17 (Etym. a cl. A. Bloxam, botanico anglo). — Acervuli minuti, subsuperficiales, truncati, basi firmiores, atri, apice delicati, albi et fere evanidi, hinc subexcipuliformes. Conidia subcuboidea, catenulata, intra

basidia generata. Basidia dense fasciculata, bacillaria. — *Trullulæ* præsertim *T. nitidulæ* affine genus videtur.

1. **Bloxamia truncata** B. et Br. Ann, N. H. 1854, p. 468, t. XVI. f. 17. — Acervulis punctiformibus, sæpius leniter elongatis, depressis, parietibus verticalibus, infra persistentibus, supra albis, delicatis, subevanidis; conidiis cuboideis, 3,2 ≃ 2,5, catenulatis; basidiis bacillaribus dense fasciculatis. 3839

Hab. in ramis emortuis Ulmi, Batheaston Britanniæ.

COLLETOTRICHUM Corda in Sturm Cr. Fl. III. 3, p. 41 (Etym. *colletos* glutinatus, et *thrix* capillus). — Acervuli innato-erumpentes, planiusculi, disciformes vel elongati, atri, setulis longis nigricantibus cincti. Conidia tereti-fusoidea, continua, hyalina, basidiis brevibus fasciculatis suffulta. — Hinc *Vermiculariæ*, illinc *Chætostromati* affine genus.

1. **Colletotrichum glœosporioides** Penz. in Mich. II. p. 450 (*Vermicularia*) et F. Agrum. II. p. 6. — Acervulis sparsis vel laxe gregariis, subepidermicis, demum erumpentibus, depressis, atris, setulis cylindricis, apice rotundato, acervuli margine insitis, continuis vel pauciseptatis, 40–90 ≃ 5–6, atro-fuligineis; basidiis intra setulas dense fasciculatis, cylindricis, apice rotundatis, basi dilute fuligineis, continuis, 18–25 ≃ 4–5; conidiis acrogenis, cylindricis, rectis, utrinque rotundatis, hyalinis, plasmate granuloso farctis, 16–18 ≃ 4–6. 3840

Hab. in utraque pagina foliorum Citri, rarius in ramulis languidis, frequentissima, Padova, Stra, Cattajo (O. Penzig), Messina (Borzì), S. Terenzo, Bologna (Gibelli). — Ob defectum perithecii genuini aptius huc, quam ad *Vermiculariam*, spectat.

2. **Colletotrichum exiguum** Penz. et Sacc. F. Mont. Gen. n. 133. — Acervulis sparsis, in maculis nigris foliorum vivorum insidentibus, hypodermicis, demum erumpentibus setulis in acervulorum margine numerosis, atro-fuligineis, continuis ex cylindraceo conicis, 45–50 ≃ 3,5–4; conidiis cylindraceis, rectis, utrinque rotundatis, eguttulatis, hyalinis, 10–12 ≃ 3,5–4; basidiis brevibus continuis, simplicibus hyalinis. 3841

Hab. in foliis vivis Spirææ Arunci in Monte Generoso (O. Penzig).

3. **Colletotrichum erumpens** Sacc. Mich. II. p. 98 (*Vermicularia*). — Perithecis spuriis gregariis innatis, dein epidermide lacerata erumpentibus, globoso-depressis, ¼ mill. diam., setulis filiformi-cuspi- 3842

ditatis, 150 ≃ 4, septulatis, atro-fuligineis parce vestitis; conidiis fusoideis curvulis, 25 ≃ 5, utrinque acutiusculis, nubilosis, hyalinis basidiis conicis, 15 ≃ 6, fuscidulis suffultis.

Hab. in caulibus emortuis Rusci aculeati pr. Rouen Galliæ (Letendre). — Perithecium genuinum desideratur, cum tantum adsit stratus proliger parenchymaticus ater, circulo setarum circumdatus; hinc propius *Colletotricho* quam *Vermiculariæ*.

4. **Colletotrichum Volutella** Sacc. et Malbr. Mich. II. p. 643. — Acervulis innato-erumpentibus, plano-convexiusculis, oblongis, $1^1/_2$ mill. longis, $^3/_4$ mill. latis, disco griseo, setulis cuspidatis, 300 ≃ 5-6, fuligineis, rectis, septatis, basi incrassatis cincto; conidiis cylindraceo-fusoideis, 14-18 ≃ 2,5-3,5, curvulis, 2-4 guttatis, hyalinis; basidiis obsoletis. 3843

Hab. in caule emortuo Ulmariæ, Parc de Quevilly Galliæ. — Conidia subinde appendicula (basidio?) brevissima, labili aucta.

5. **Colletotrichum Lineola** Corda in Sturm D. Kr. Fl. III. 3, p. 41, tab. 21, Sacc. Mich. p. 271. — Setis nunc seriatis, nunc in pseudoconceptaculum congregatis, cuspidatis, 60 ≃ 3, fuligineis, sursum pallidioribus; conidiis fusoideis, arcuatis, 25-28 ≃ 3,5-4, utrinque, præcipue apice, acutis, 3-nucleatis, hyalinis, ad basim setulorum, basidiis brevissimis suffultis, nascentibus. 3844

Hab. in foliis Andropogonis Grylli, Padova Italiæ bor., et in caulibus Umbelliferarum prope Pragam Bohemiæ. — Videretur status infans, perithecio carens, *Vermiculariæ*.

6. **Colletotrichum? aureum** Corda Icon. I. p. 17, t. IV. f. 231. — Acervulis minutis, aureis; setulis simplicibus, erectis, septatis, 7-8 μ. latis, supra incrassatis, aureis, diaphanis; conidiis minutis oblongis concoloribus, muco pallido immersis, 3 μ. d. 3845

Hab. in Sphæriaceis et Scleromycetibus variis prope Reichenberg Bohemiæ. — «Vix hujus generis».

7. **Colletotrichum microspermum** Corda Ic. F. IV. p. 28, t. VI. f. 85. — Acervulis late effusis, tenuissimis, fuscis, subpruinosis; setulis simplicibus, 180 μ. longis, erectis, septatis, pallide-fuscis, supra albis; conidiis in cirros gelatinosos glaucos irregulariter conglobatis subovoideis, minutissimis intus nucleolo solitario vesiculæformi, extus strato crassiusculo gelatinoso albo-cincto, ornatis, 3-3, 5 μ. longis. 3846

Hab. in ligno Coniferarum Reichenberg Bohemiæ. — «Vix hujus loci».

PESTALOZZIELLA Sacc. et Ellis Mich. II. p. 575 (Etym. a *Pestalozzia* cui affine genus). — Acervuli subcutanei, perithcio carentes. Conidia oblonga, continua, subhyalina, apice setulis hyalinis aucta. — A *Pestalozzia*, cui analogum genus, differt conidiis continuis, subhyalinis.

1. **Pestalozziella subsessilis** Sacc. et Ellis Mich. II. p. 575. — Maculis minutis subcircularibus, amphigenis expallentibus, fusco-marginatis; acervulis punctiformibus epidermide velatis, pallidis; conidiis oblongis, utrinque obtusiusculis, 20-22 ≃ 6,5-7, continuis, 3-guttatis, subhyalinis, apice seta filiformi, a basi 4-5-ramosa, 25 ≃ 1 auctis, basi stipite brevissimo setaceo suffultis. 3847

Hab. in foliis subvivis Geranii caroliniani, Newfield, N. J. Amer. bor. (Ellis). — Cl. Ellis per tres annos speciem observavit conidiaque semper continua reperit. — Habitu affinis *Robillardæ depazeoidi* Sacc. (Willk. et Curr.) et *R. sessili* Sacc.

CYLINDROSPORIUM Ung. Exanth. p. 166, em. Sacc. Mich. II. p. 12, non Grev. (Etym. *cylindricus* et *spora*). — Acervuli vel nuclei subepidermici albi vel pallidi, disciformes vel subeffusi. Conidia filiformia continua, hyalina, sæpius flexuosa. — Est, meo sensu, *Glœosporium* conidiis filiformibus et ut *Entylomatis* status conidiophorus pro certo habetur.

1. **Cylindrosporium Ficariæ** Berk. in Grevillea, *Glœosporium Ficariæ* (Berk.) Cooke Handb. n. 1413. — Acervulis variis, epidermide velatis, applanatis; conidiis bacillaribus, curvulis, utrinque acutiusculis, flexuosis, 25-35 ≃ 2½, pluriguttulatis, hyalinis. 3848

Hab. in foliis Ficariæ ranunculoidis vivis in Britannia et Gallia.

2. **Cylindrosporium niveum** B. et Br. Ann. H. n. 1459. — Maculis numerosis, crebris, 2-4 mill. latis, sæpe confluentibus, brunneo-marginatis; conidiis candidis, oblongis, 1-septatis, 50 μ. longis, breviter pedicellatis. 3849

Hab. in foliis Calthæ palustris, New Pitsligo Britanniæ.

3. **Cylindrosporium Ranunculi** (Bon.) Sacc. Mich. p. 540, *Fusidium Ranunculi* Bon. Handb. t. I. f. 7. — Acervulis initio subcutaneis more *Glœosporii*; conidiis demum protrusis, fili-fusiformibus, 80 ≃ 2, subflexuosis, granulosis, hyalinis; intermixtis aliis crassis et brevius fusoideis, 18-20 ≃ 2,5-3, quandoque curvulis nubilosis, hyalinis; basidiis filiformibus apice obtusiusculis, hyalinis. — Cfr. F. it. t. 1088. 3850

Hab. in foliis Ranunculi acris et bulbosi, Padova in Ital. bor. — β. **Calthæ**. In foliis Calthæ palustris, Saintes Galliæ.

4. **Cylindrosporium Glycyrrhizæ** Harkn. F. Calif. p. 12. — Hypophyllum, paginam fere totam occupans, cirrose exsiliens; conidiis cylindricis, utrinque acutis, pluriguttulatis, 40–70 ≃ 4–5. 3851

Hab. in foliis vivis Glycyrrhizæ, Sunol Californiæ.

5. **Cylindrosporium Phaseoli** Rabenh. in Kl. Herb. Myc. II. n. 327 (*Cylindrospora*). 3852

Hab. in foliis Phaseolorum prope Dresden Germaniæ (Diagnosis desideratur).

6. **Cylindrosporium microspermum** (Speg.) Sacc. Mich. II. p. 169, *Fusidium microspermum* Speg. Dec. Myc. p. 120. — Hypophyllum; maculis circularibus indeterminatis, amphigenis-flavo-pallidis; acervulis epidermide tumidula velatis; conidiis bacillari-fusoideis, utrinque acutis, 6–12 ≃ ¾, hyalinis, quandoque leniter curvis, denique emergenti-superficialibus. 3853

Hab. ad folia viva vel languida Saxifragæ rotundifoliæ in silva Cansiglio Italiæ bor. (Spegazzini).

7. **Cylindrosporium Padi** Karst. Symb. Myc. Fenn. XV. p. 159. — Hypophyllum; maculis angulatis, subfuscis, amphigenis; acervulis epidermide tumidula velatis; conidiis filiformibus, flexuosis, denique emergenti-superficialibus, hyalinis, 48–62 ≃ 2. 3854

Hab. ad folia viva vel languida Pruni Padi, Mustiala Fenniæ.

8. **Cylindrosporium Gei** Farlow, Fl. With. Mount. p. 250. — Maculis minutis, distincte limitatis; acervulis amphigenis minutis albis e massa densa subparenchymatica hypharum simplicium vel ramosarum constantibus et ex ostiolo stromatum erumpentibus, 75–115 ≃ 3, in conidia filiformia, recta v flexa 38–110 μ. lg. desinentibus. 3855

Hab. in foliis Gei radiati var. Peckii, Lake of the Clouds, White Mountains Amer. bor.

9. **Cylindrosporium Filipendulæ** Thüm. Symb. Myc. austr. p. 146. — Acervulis hypophyllis, divergentibus, tenuissimis, pallidissime ochraceis, sine maculis; conidiis cylindraceis, longis, curvatis, utrinque acutatis, æqualibus, obscure bi-quinque-septatis, nucleatis, 30–35 ≃ 2–3. 3856

Hab. in foliis vivis Spirææ Filipendulæ, Klosterneuburg Austr. infer.

10. **Cylindrosporium Myosotidis** Sacc. Mich. I. p. 533. — Acervulis epidermide velatis, applanatis, variis, ex albo luteolis; conidiis filiformibus, curvulis, 50–55 ≃ 1½, pluriguttulatis, hyalinis. 3857

Hab. in pag. infer. foliorum Myosotidis palustris, Symphyti et Borraginis pr. Rouen Galliæ (Letendre). — In forma *Symphyti* et *Borraginis:* conidia sunt filiformia, 40–50 ≃ $1^1/_2$–$1^2/_3$, subflexuosa, hyalina. — Hæ formæ sub nominibus variis *Cylindrosporæ* vel *Septoriæ* etc. occurrunt apud auctores, sed incertissime limitatæ.

11. **Cylindrosporium Scrophulariæ** Sacc. et Ellis Mich. II. p. 575. — 3858
Maculis minutis albis, late fusco-marginatis; acervulis exiguis, subepidermicis; conidiis filiformibus, curvis, 30–40 ≃ 1,5–2, 3-guttulatis, hyalinis, e mycelio vage ramoso filiformi oriundis.

Hab. in foliis Scrophulariæ nodosæ in Pensylvania (Doct. G. Martin).

12. **Cylindrosporium? australe** Speg. F. Arg. Pug. III. n. 137. — 3859
Acervulis subepidermicis, pallidis; conidiis filiformibus, rectis vel flexuosis, utrinque subattenuatis, 80–90 ≃ 2–3, hyalinis, granuloso-farctis, fasciculato-penicillatim e stromatibus exeuntibus.

Hab. in maculis *Entylomatis australis* ad folia viva Physalidis hirsutæ in herbosis de la Boca del Riachuelo Argentinæ. — Certe *Entylomatis australis* status macroconidicus.

13. **Cylindrosporium rhabdosporum** B. et Br. Ann. N. H. n. 1458. — 3860
Maculis orbicularibus, brunneis, amphigenis; conidiis fasciculos minutos radiatos formantibus, oblongis, leniter nodulosis, obtusis, 3-septatis, 20–30 μ. longis, subinde altero in altero superimposito.

Hab. in foliis Plantaginis, Glamis Britanniæ (J. Stevenson).

14. **Cylindrosporium pulveraceum** Speg. F. Arg. Pug. II. p. 39, n. 152 3861
(sub nom. *Fusidii pulveracei*). — Maculis nullis; acervulis hypophyllis, nubiloso-pulverulentis, candidis, indeterminatis, 1–3 mill. diam.; conidiis cylindraceis vel rarius cylindraceo-fusoideis, utrinque acutiuscule rotundatis, continuis vel medio uniseptatis, 10–20 ≃ 2,5–3, hyalinis, granuloso-farctis.

Hab. ad folia viva Polygoni acuminati in paludosis secus Rio de la Plata.

15. **Cylindrosporium pulchrum** Speg. F. Arg. Pug. IV. n. 312. — A- 3862
cervulis minutissimis, 70–80 μ. d., primo subepidermicis, dein erumpenti-liberis, candidis, dense gregariis, hypophyllis; conidiis cylindraceis, utrinque obtusiuscule rotundatis, rectis vel vix curvulis, minutis, 10–30 ≃ 2–2,5, hyalinis.

Hab. in foliis vivis Rumicis pulchri in uliginosis herbosis, Recoleta Argentinæ.

16. **Cylindrosporium Colchici** Sacc. Miscell. Myc. F. Gall. n. 2266. 3863

an *Septoria Colchici* Pass.? — Acervulis parenchymate immersis, punctiformibus, sæpius concentrice dispositis, 80–100 μ. diam., perithecio destitutis; conidiis bacillari-fusoideis hyalinis, 26–30 ≃ 2–2,5, curvulis, subinde spurie 1–3-septatis (interdum multo brevioribus, 10–12 ≃ 3 rectiusculis); basidiis bacillaribus varie ramosis, hyalinis.

Hab. in foliorum partibus arescendo ochraceis Colchici officinalis, Rouen Galliæ (Letendre).

17. **Cylindrosporium veratrinum** Sacc. et Winter Hedwig. 1883, p. 14. 3864
— Acervulis minutis, innatis, seriatis, irregularibus, hyphis filiformibus, ramulosis hinc inde exserentibus conidia bacillaria, curvula, utrinque rotundata, 75–90 ≃ 3,5–4,5, bi-triseptata, non constricta, hyalina, dein in grumulos candidos expulsa.

Hab. ad folia viva Veratri albi, Rigi prope Luzern Helvetiæ (G. Winter).

18. **Cylindrosporium Alismacearum** Sacc. Mich. II. p. 121. — Acer- 3865
vulis punctiformibus, subcutaneis, dein suberumpentibus; conidiis bacillaribus, subcurvis, 30 ≃ 1½–2, pluriguttulatis, utrinque obtusiusculis et e mycelio filiformi, vage ramuloso oriundis.

Hab. in foliis Alismatis Plantaginis, socio *Entylomate Alismacearum*, quocum metagenetice connexum est, prope Rouen Galliæ (Letendre).

CRYPTOSPORIUM Kunze Myk. Heft. I. 1, em. Corda in Sturm Fl. Kr. III. t. 49 (Etym. *cryptos* abditus et *spora*). — Acervuli vel nuclei figurati, discoideo-conici, peridermio tecti, centro dein erumpentes, subinde pseudo-perithecio e matrice formata inclusi, sæpius saprophyti; conidia fusoideo-falcata, majuscula, continua, hyalina, typice stipitata. — Species aliquot *Cryptosporæ* spermogonia sistunt.

I. *Species ramicolæ.*

1. **Cryptosporium Neesii** Corda in Sturm Kr. Fl. III. p. 109, t. 51, 3866
Sacc. F. ital. t. 1095, *Crypt. vulgare* Fr. Syst. Myc. III. p. 482. — Acervulis subcutaneis, suberumpentibus, conico-discoideis, atro-olivaceis; conidiis fusiformibus vel cylindraceo-fusiformibus, curvatis, granulosis, subhyalinis, 50 ≃ 5–6, basidiis brevissimis suffultis.

Hab. in ramis emortuis Alni glutinosæ et A. incanæ in Germania, Bohemia, Italia, Gallia, Suecia. — Status conidicus *Cryptosporæ suffusæ*. — β. **betulinum** Sacc. Mich. II. p. 169, F. ital. t. 1094: a typo conidiis paullo angustioribus, nempe 50 ≃ 4–5 dif-

fert; ceterum vix diversum. In ramis corticatis Betulæ albæ, Padova Ital. bor. — Absque dubio status conidiophorus *Cryptosporæ betulinæ* Tul.

2. **Cryptosporium Eucalypti** Cooke et Harkn. Grev. 1881, p. 84. — Sparsum, punctiforme, epidermide tectum; conidiis fusoideis, abrupte curvulis, hyalinis, 20 ≃ 3,5. 3867

Hab. in ramulis Eucalypti Globuli in California.

3. **Cryptosporium ferrugineum** Bon. Abhandl. Geb. d. Mykol. II. p. 130. — Acervulis rotundis, minimis, lentiformibus, mycelio ferrugineo tectis, pustulis convexis, e quibus acervulus poro pertusus, disci ad instar, erumpit; conidiis fusiformibus, utrinque acutis, diaphanis. 3868

Hab. in ramis siccis Mori in Guestphalia.

4. **Cryptosporium Nyssæ** C. et Ellis in Grevillea. — Erumpens; pustulis tectis, demum epidermide laceratis, atris; conidiis lanceolatis, hyalinis, nucleatis, rectis, 20–22 ≃ 5. 3869

Hab. in ramis Nyssæ, New Jersey Amer. bor. — *Cryptosporio coronato* Fuck. peraffine.

5. **Cryptosporium oxyspermum** Schulz. et Sacc. Micr. Slav. n. 63, Schulz. Ill. Fung. Slav. n. 971. — Acervulis subcutaneo-erumpentibus, conico-obtusis, compactis, $^1/_2$–1 mill. diam., atris, nucleo pallidiore; conidiis bacillari-fusoideis hic acutis, hinc obtusiusculis, curvulis, 43–61 ≃ 3; basidiis obsoletis. 3870

Hab. in ramis corticatis Juglandis regiæ prope Vinkovce Slavoniæ.

6. **Cryptosporium opegraphoides** Malbr. et Sacc. Mich. II. p. 120, F. ital. tab. 1093. — Acervulis sparsis, plano-pulvinatis, tectis dein erumpentibus, ambitu angulosis, $^1/_2$ mill. diam., nigris; conidiis cylindraceo-bacillaribus, curvis, utrinque rotundatis, 40–45 ≃ $3^1/_2$, nubilosis, hyalinis, basidiis teretibus dimidio brevioribus suffultis. 3871

Hab. in ramulis corticatis Fagi silvaticæ, Brionne Galliæ (Malbranche).

7. **Cryptosporium amygdalinum** Sacc. *Cryptosporellæ aureæ* stat. conidicus Sacc. Syll. I. pag. 466. — Pustulis minutis, siccis, demum epidermidem lacerantibus, intus niveis, simplicibus; conidiis oblongo-lanceolatis, continuis, inæquilateralibus, granulosis, hyalinis, 22 ≃ 8. 3872

Hab. in ramis corticatis Carpini Betuli in Germania, Gallia, Britannia et Italia. — Sec. Fuck. in acervulis primitus adsunt conidia minutissima cylindracea.

8. **Cryptosporium conicum** Bon. Abhandl. Geb. d. Mykol. II. p. 130. 3873

— Effusum, sparsum; acervulis rotundis, depressis, pallidis, intus griseis, disco rotundo, plano et ostiolo papillato, epidermide fissa arcte inclusis, erumpentibus; pustulis conicis; conidiis oblongo-fusiformibus, utrinque acutiusculis, primum guttulis globosis, seriatis notatis, hyalinis.

Hab. in ramis quercinis in Guestphalia.

9. **Cryptosporium maculans** Corda Icon. I. p. 2, f. 31. — Acervulis 3874
epidermide plicata tectis, maculæ pallidæ, luridæ insidentibus, atris; conidiis minutissimis, acuminatis, albis, diaphanis.

Hab. in ramulis emortuis Salicum rarissime in Bohemia.

10. **Cryptosporium hysterioides** Corda Icon. I. p. 2. tab. I. fig. 30. 3875
Acervulis oblongis erumpentibus, atris; conidiis oblongis, minutis, albis, 6,2–6,8 μ. lg. (subinde, teste Fuck., spurie 1-septatis); stromate maculaque nulla.

Hab. in ramulis emortuis Salicis prope Pragam in Bohemia, et Salicis viminalis in Rhenogovia.

11. **Cryptosporium coronatum** Fuck. Cfr. Syll. I. p. 468. — Acer- 3876
vulis planis, magnis, griseis, tectis, dein erumpentibus, basi anulo floccoso-radiato, albo circumdatis; conidiis oblongo-fusiformibus, utrinque obtusiusculis, simplicibus, hyalinis, in basidiorum simplicium apicibus.

Hab. in ramis corticatis Populi pyramidalis in Germania, Belgio et Gallia. — Sistit statum conidicum *Cryptosporellæ populinæ*.

12. **Cryptosporium Populi** Bon. Abhandl. Geb. d. Mykol. II. p. 130. 3877
— Acervulis planis, griseis, mycelio tenuissimo, radiante coronatis, epidermide tectis; pustulis convexis, ½ mill. latis, poro fisso apertis; conidiis albis, claris, oblongo-fusiformibus, obtusiusculis.

Hab. in ramis Populorum in Bohemia.

13. **Cryptosporium noveboracense** B. et C. North Amer. Fungi n. 395. 3878
— Pustulis (peritheciis?) deplanatis fuscis; conidiis lunatis, 25 μ. longis; basidiis vix 12 μ. longis.

Hab. in cortice Abietis in montanis New York et Markham Station in America boreali.

14. **Cryptosporium hypodermium** Auersw. in M. Willk. Sertum Fl. 3879
Hisp. p. 170. — Acervulis demum ore pertusis sub epidermide secedente nidulantibus; conidiis fixis, subfusiformibus, lunatis, utrinque obtusiusculis, hyalinis, guttulatis.

Hab. in ramis tenellis emortuis Solani Dulcamaræ in Aragonia pr. Jaca. — Format maculas parvas oblongas nigrescentes.

VIII 2, 1878

15. **Cryptosporium Lupini** Cooke in Grevill. — Sparsum, tectum, minutum; conidiis lunatis, utrinque acutis, continuis, hyalinis, 30 ≃ 4. 3880

Hab. in caule Lupini in California.

II. *Species foliicolæ.*

16. **Cryptosporium epiphyllum** C. et Ellis in Grevillea. — Maculis orbicularibus, fuscis; pustulis 1-3, obscurioribus, convexis; conidiis fusoideis, lunatis, hyalinis, utrinque acutis, 30 μ. longis. 3881

Hab. in foliis languidis Castaneæ, New Jersey Amer. bor. — « Potius *Phlœospora* ».

17. **Cryptosporium nigrum** Bon. Abhandl. Geb. d. Mykol. II. p. 130. — Pustulis minutis, nigris, in macula fusca, poro lato apertis; sacculis minutis, rotundis, planis, fuscis; conidiis suboblongis, fusiformibus, hyalinis et subcurvatis. 3882

Hab. in foliis vivis Juglandis in Guestphalia.

18. **Cryptosporium Mori** Fuck. Symb. Myc. p. 352. — A *Cryptosporio Ribis* differt: conidiis oblongis, vix curvatis, utrinque obtusis. 3883

Hab. in foliis putridis Mori albæ prope Hattenheim Rhenogoviæ.

19. **Cryptosporium punctiforme** Cooke et Harkn. in Grevill. 1881, p. 84. — Epiphyllum, sparsum, exiguum, punctiforme, habitu *Sphærellæ punctiformis;* conidiis leniter curvulis, utrinque attenuatis, hyalinis, 80-90 ≃ 2.2. 3884

Hab. in foliis Arbuti Menziesii in California.

20. **Cryptosporium falcatum** Cooke et Harkn. in Grev. 1881, p. 84. — Hypophyllum vel amphigenum, punctiforme, in plagas nebulosas aggregatum; sporophoris elongatis, falcatis; conidiis utrinque attenuatis, hyalinis, leniter curvulis, 20-23 ≃ 2, acro-pleurogenis. 3885

Hab. in foliis Arctostaphyli in California.

21. **Cryptosporium viride** Bon. Abhandl. Geb. d. Mykol. II. p. 129. — Acervulis fusco-viridibus; conidiis longis, fusiformibus, utrinque obtusiusculis, pellucidis, subviridibus; pustulis convexis, rotundis, poro simplici apertis. 3886

Hab. in foliis Piri Mali, Sorbi et Ægopodii in Guestphalia. — Sec. Hoffmann Ind. p. 43, species collidit cum *Cryptosporio Sorbi* Ces.

22. **Cryptosporium Ribis** Fuck. Symb. Myc. p. 111. — Acervulis..... conidiis in sporophori oblongi apice, fusiformibus, apice curvatis, hyalinis. 3887

Hab. in foliis siccis dejectis Ribis alpini in Rhenogovia.

23. **Cryptosporium circinans** Welw. et Curr. Fungi Angol. p. 286. — 3888
Acervulis stipatis, subglobosis vel irregularibus in circulos concentricos dispositis; conidiis pallidis, subclavatis vel subfusiformibus leviter curvatis, longitudine variis, 15 μ. longis.

Hab. frequens ad folia fruticis spinosissimi e Capparideârum familia in dumetis prope Loanda Angolæ.

24. **Cryptosporium Calami** Niessl in Rabenh. Hedw. 1878, p. 167 et 3889
F. Eur. n. 2454. — In foliis Acori Calami, Calcutta Indiæ; in Rabenh. F. Eur. exempl. citato adest tantum *Pestalozziæ* species.

25. **Cryptosporium imberbe** Fr. Summa Veg. Scand. p. 423, Scler. 3890
Suec. n. 405bis (non vidi) ..... conidiis ut in *Leptothyrio acerino*. — In caulibus in Suecia.

26. **Cryptosporium deplanatum** Fr. Summa Veg. Scand. p. 423, Scler. 3891
Suec. n. 406 ..... conidiis pellucidis, curvulis, copiosissimis. — In caulibus in Suecia.

LIBERTELLA Desm. in Ann. Sc. nat. 1830, XIX. p. 277, emend. Sacc. Mich. II. p. 12. (Etym. a Dom. Anna Libert, meritissima cryptogamologa Arduennensi). — Acervuli seu nuclei difformes, diu epidermide velati, sæpe tandem in cirros varios læticolores erumpentes; conidia filiformi-falcata, longa, continua, hyalina, basidiis variis suffulta.

1. **Libertella faginea** Desm. Ann. Sc. nat. 1830, p. 276, t. 5, f. 5, 3892
Sacc. F. it. t. 1085, *Nœmospora crocea* Pers. (?), Fres. Beitr. t. IV. f. 35-39! (non Desm.). — Acervulis difformibus, sæpe confluentibus, subcutaneis, vix erumpentibus, flavo-aurantiacis; conidiis filiformi-fusoideis curvatis, 30-35 ≃ 2, hyalinis.

Hab. in ramis corticatis Fagi silvaticæ in Gallia, Italia, Germania, Britannia. — Forma **minor** Sacc. Mich. II. p. 283: acervulis minoribus; conidiis 18-25 ≃ 1. In ramulis tenuioribus faginеis in silva Cansiglio Ital. bor. — *Nœmospora crocea* Desm. Ann. Sc. nat. 1830, t. VI. f. 3, conidiis globosis pollet et tunc *Myxosporium* spectat. Cfr. suo loco.

2. **Libertella fusca** Bon. Handb. d. Myk. p. 57, t. III. f. 70. — Acer- 3839
vulis majusculis, obtusis, flavo-fuscis, tectis; conidiis filiformi-fusoideis, in semicirculum arcuatis, denique erumpentibus; basidiis longis furcatis.

Hab. in cortice Fagi in Guestphalia. — « An status provectior *Libertellæ faginеæ?* ».

3. **Libertella Rosæ** Desm. Ann. Sc. nat. 1830, p. 277, t. V. f. 6, Sacc. F. it. t. 1084, *Nœmospora Rosæ* Fr. S. M. III. p. 479. — Acervulis difformibus, sæpe confluentibus, subcutaneis, amœne rubro-aurantiacis; conidiis arcuato-filiformibus, 10-14 ≃ 1, basidiis teretibus subæquilongis suffultis, hyalinis. 3894

Hab. in ramis languidis vel emortuis Rosarum (et Syringæ, teste Cooke) in Gallia, Germania, Italia, Britannia.

4. **Libertella Loniceræ** Cooke et Harkn. in Grevillea. — Sparsa, tecta, leviter bullata, demum pertusa; conidiis fusiformibus arcuatis, hyalinis, in cirros pallidos emergentibus, 20 ≃ 2,5. 3895

Hab. in ramis Loniceræ in California.

5. **Libertella hesperidica** Speg. Fungi Argent. Pug. IV. n. 313. — Acervulis pulvinato-tumescentibus, sæpe subconicis, subepidermicis, diu tectis, dein epidermidem ostiolatim rumpentibus atque cirrum prælongum varie contortum, succineo-fulvum emittentibus; sporulis fusoideo-filiformibus, utrinque acutissimis, valide falcatis, continuis, hyalinis, 28-34 ≃ 0,7-1. 3896

Hab. in ramis dejectis putrescentibus Citri Aurantii, Parque de Palermo, prope Buenos Ayres Argentinæ (C. Spegazzini).

6. **Libertella betulina** Desm. in Ann. Sc. nat. 1830, XIX. p. 276, t. VI. f. 4, *Nœmospora aurea* Fr. Syst. Myc. III. p. 478. — Acervulis expansis celluloso-gyrosis, aureis; conidiis subrectis, fusiformibus aureis, utrinque acutis, quam in *Libertella faginea* paullo brevioribus. 3897

Hab. in ramis siccis Betulæ albæ et B. verrucosæ in Gallia, Germania et America boreali.

7. **Libertella acerina** Westend. Cinquième Not. Hypox. ined. p. 29. — Acervulis epidermide bullosa, brunneo-aurantiaca pallida, irregulariter fissa tectis; conidiis fili-fusiformibus, curvatis, 20-25 μ. longis, aurantiacis. 3898

Hab. in cortice emortuo Aceris, Louvain in Belgio.

8. **Libertella Taleola** Sacc., *Diaporthes* (Chorostates) *Taleolæ* stat. conid. Tul. II. p. 168. — Acervulis suborbicularibus, planiusculis, castaneis, intus carnosulis et dilute roseolis, gregariis, sæpe linea atra definitis; conidiis cylindraceis, utrinque acutiusculis, 20-30 ≃ 4, arcuatis, hyalinis. 3899

Hab. in ramis corticatis quercinis in Gallia.

9. **Libertella punicea** Hoffm. in Rabenh. F. Eur. n. 861 (non vidi) et Hedw. 1865, p. 158. — Acervulis vel cirris amœne puniceis 3900

Hab. in ramis Quercus americanæ in horto botan. Giessen.

10. **Libertella alba** (Lib.) Lamb. Fl. Myc. Belg. III. p. 183, *Næmospora alba* Lib. Exs. n. 364, *Libertella macrospora* West. Cinquième Not. Hypox. ined. p. 29. — Acervulis tectis, bulbosis, fisso-erumpentibus, intus albido-carneis, extus fuscis; conidiis fusiformibus, curvis, utrinque obtusis, hyalinis, in cirrum album dein carneum tortuosum effusis, 40-60 ≃ 5. 3901

Hab. in ramis emortuis Alni glutinosæ in Belgio. — « An potius *Cryptosporium Neesii?* ».

11. **Libertella pallida** Fuck. Symb. Myc. p. 398. — Gregaria; cirris tenuissimis, flexuosis, pallidis; conidiis cylindraceis, brevibus, subrectis, aliis longissimis commixtis. 3902

Hab. in cortice Salicum, rarius pr. Œstrich in Rhenogovia.

12. **Libertella Bonordenii** Sacc. *Lib. alba* Bon. Abhandl. Geb. Mycol. II. p. 126, non Lib. — Acervulis longis irregularibus candidis, demum flavescentibus, planis, papillis conicis erumpentibus; conidiis cylindricis, longis, subrectis, utrinque obtusiusculis, hyalinis. 3903

Hab. in ramis dejectis Fagi in Guestphalia.

13. **Libertella hamata** Bon. Abhandl. Geb. Mykol. II. p. 126. — Pustulis parvis, rotundis, conicis, apice laciniato-dehiscentibus, demum late apertis; acervulis ostiolo simplici erumpentibus et stromate conico suffultis; conidiis cylindricis hamatis, quam in *Libertella Rosæ* paullo brevioribus; basidiis simplicibus. 3904

Hab. in ramis siccis in Guestphalia.

14. **Libertella lignifraga** Mont. Cent. VI. n. 96bis, in Ann., 1849, 3, XII. p. 317, Syll. Crypt. n. 1028. — Seriata; nucleo hemisphærico ob confluentiam lineari; conidiis cylindricis hyalinis curvatis utrinque obtusis, cirrose rejectis, cirris tæniatis albis. 3905

Hab. in ligno denudato erumpens prope Sedan in Arduennis.

NÆMOSPORA Pers. Syn. Fung. 110. em. Sacc. Mich. II. p. 12. (Etym. *nama* fluxio et *spora*). — Acervuli seu nuclei difformes, peridermio diu velati, læticolores, subgelatinosi. Conidia botuliformia, breviuscula, continua, hyalina, tandem sæpe in cirros exsilientia. Basidia bacillaria varia sæpe ramosa.

1. **Næmospora croceola** Sacc. Mich. II. p. 120, F. it. t. 1086. — Acervulis subcutaneis, pulvinatis, 2-3 mill. d., amœne aurantiacis, intus plurinucleatis (sed perithecio carentibus); conidiis botuliformibus, minutis, 5-6 ≃ $^3/_4$-1, basidiis bis verticillato-ramulosis, aciculariibus suffultis, in cirros gelatinosos varios succineos exsilientibus. 3906

Hab. in ramis corticatis Castaneæ vescæ, Quercus, Fa-

gi, Fraxini prope Toulouse, Rouen, etc. Galliæ. — Basidia in forma **Quercus** 20-25 ≃ 1, in forma **Fraxini** 15 ≃ 3; conidia in utraque 4-5 ≃ $^3/_4$-1.

2. **Næmospora populina** Pers. Syn. F. p. 109, *Valsæ populinæ* stat. conid. Sacc. Syll. I. p. 131. — Stromate nigrescente, subcutaneo, conico-applanato; cirris flavis; conidiis cylindraceis, curvatis, 8 ≃ 1$^1/_2$. 3907

Hab. in ramis exsiccatis Populi nigræ in Germania et Italia.

3. **Næmospora citrinula** Speg. F. Arg. Pug. IV. n. 314. — Nucleis densiuscule gregariis, subepidermicis, late gregariis, minutis, hinc inde per corticem erumpentibus et in cirrum longissimum undulato-circinatum, succineo-citrinum productis; conidiis ellipticis vel elliptico-cylindraceis, rectis vel inæquilateralibus, numquam curvulis, utrinque obtusiusculis, majuscule 2-guttulatis vel granuloso-farctis, 10-13 ≃ 2,5, hyalinis. 3908

Hab. in ramis dejectis putrescentibus Salicis Humboldtianæ in uliginosis, Boca del Riachuelo Argentinæ.

4. **Næmospora Corchori** (Kalchbr.) Sacc. *Psecadia Corchori* Kalchbr. Szeps. Gomb. p. 267. — Acervulis minutis lobatis, epidermide parum elevata tectis; conidiis minutis cytisporoideis (h. e. allantoideis). 3909

Hab. in ramulis corticatis Kerriæ japonicæ in Hungaria.

5. **Næmospora microspora** Desm. Ann. Sc. nat. 1830, tab. VI. fig. 1, *Diatrype Stigmatis* st. conid. Sacc. Syll. I. p. 193. — Acervulis suborbicularibus, plerumque confluentibus lateque extensis, reticulatim exaratis, læte auratis, deinde ex cinereo nigrescentibus; conidiis cylindraceis, curvulis, 4-5 ≃ 1,5, basidiis filiformibus, 24-28 ≃ 1,5 suffultis, denique in cirros subaurantios eructatis. 3910

Hab. in ramis corticatis Fagi, Carpini, Castaneæ, Quercus in Germania, Gallia, Italia. — Conidia ex Desm. minuta ovoidea; an eadem species?

6. **Næmospora decipiens** B. et R. North Amer. Fungi n. 415. — Acervulis sub cortice abditis; conidiis brevibus cylindraceis, curvulis, flavidis; basidiis conidio paullo longioribus. 3911

Hab. in corticibus, quorum superficies conidiis conspersa est, in Carolina inf. Amer. bor.

7. **Næmospora erythræa** B. et C. North Amer. Fungi n. 500. — Acervulis depressis, epidermide tenui tectis, gregariis, intus cellulis globosis præditis; conidiis breve oblongis, minutissimis. 3912

Hab. in ramis Rosarum in America boreali.

8. **Næmospora crocea** (Bon.) Sacc. *Libertella crocea* Bon. Handb. 3913

p. 57, t. III, f. 63, nec Auctorum, *Libertella aurea* Fr. sec. Bon. Abh. II. p. 127. — Acervulis laxe gregariis, subcutaneis, convexulis, croceis, dein stellatim erumpentibus; conidiis allantoideis, breviusculis curvulis; basidiis fasciculatis duplo longioribus suffultis.

Hab. in ramis corticatis Cratægi in Guestphalia.

9. **Næmospora nigrificans** (Bon.) Sacc. *Libertella nigrificans* Bon. Handb. d. Myk. p. 57, t. III. f. 63 d. — Acervulis pallide flavis peridermium nigrificantibus et bullatim leniter inflantibus, clausis; conidiis cylindraceis rectiusculis, brevibus utrinque rotundatis, in cirrum luteum expulsis. 3914

Hab. in sarmentis Ruborum et Rosarum silvestrium in Guestphalia.

10. **Næmospora plumbea** (Bon.) Sacc. *Libertella plumbea* Bon. Abhandl. Geb. d. Myk. II. p. 127. — Acervulis lentiformibus, fuscis; pustulis convexis, plumbeis; conidiis cylindricis, curvatis, minimis, hyalinis, brevibus. 3915

Hab. in ramis Cratægi in Guestphalia.

11. **Næmospora tenuissima** (Bon.) Sacc. *Libertella tenuissima* Bon. Abhand. Geb. d. Myk. II. p. 126. — Acervulis planis, oblongis, hyalinis, dilute flavis, demum fuscescentibus; conidiis linearibus, sublongis, rectis, tenuissimis, hyalinis; ostiolo papilliformi, nigro-fusco. 3916

Hab. in ramis siccis Coryli in Guestphalia.

12. **Næmospora Westendorpii** Sacc. *Libertella microspora* Westend. 5. Not. Hypoxyl. ined. p 30, nec Desm. — Acervulis bullatis, epidermide irregulariter fissa tectis, aurantiaco-rubris; conidiis minutis, filiformibus, plus minusve recurvatis, 10 μ. longis. 3917

Hab. in ramis quercinis in Belgio.

13. **Næmospora flava** (Bon.) Sacc. *Libertella flava* Bon. Abhandl. Geb. d. Myk. II. p. 127. — Acervulis rotundis, irregularibus, flavis; pustulis planis, flavidis; conidiis brevibus, minimis, cylindricis, curvatis, albis. 3918

Hab. in ramis Quercus in Guestphalia.

14. **Næmospora rufa** B. et C. North Amer. Fungi n. 494. — Acervulis irregularibus, applanatis, intus cellulosis; conidiis minutissimis globulosis motu Browniano præditis. 3919

Hab. in ramis Magnoliæ in Amer. bor. — «Si conidia globulosa, species in genere anceps».

15. **Næmospora pruinosa** B. et C. North Amer. Fungi n. 493. — Pu- 3920

stulis gregariis pruinosis, intus cellulosis; sporulis minutissimis, subellipsoideis.

Hab. in Echinocactis, Massachussets Amer. bor. (Murray).

16. **Næmospora lateritia** Fres. Beitr. p. 33. — Acervulis brunneis, 3921
subglobosis, subcutaneis, epidermidem poro atro perforantibus; conidiis oblongis vel breve bacillaribus, 6–7 μ. longis, rectis, in cirros carneos vel lateritios exsilientibus; basidiis brevibus simplicibus vel furcatis.

Hab. in epicarpio Cucurbitæ putrescenti in Germania. — «An vera *Næmospora?*».

17. **Næmospora fusisperma** Preuss F. Hoyersw. n. 327. — Acervulis 3922
pulvinatis, cortici insidentibus, hypothecio basidiifero; basidiis filiformibus; conidiis fusiformibus, utrinque acutis, curvatis, albis, guttulatis, cirro plano, amœne ochraceo.

Hab. in cortice Alni, Hoyerswerda. — «An *Cryptosporium?*».

18. **Næmospora leucostroma** Preuss F. Hoyersw. n. 330. — Pustulis 3923
minutis, gregariis, erumpentibus; ostiolo perforante, nigrescente; stromate subgloboso, subalbo; peritheciis («nucleis?») numerosis, oblongis et polymorphis lobatis, atris, circinantibus, nucleo bulboso, atro; cirris filiformibus, coccineis; basidiis filiformibus, longis; conidiis fusiformibus, utrinque rotundatis, curvatis, minutis, albis.

Hab. in cortice Alni, Hoyerswerda. — «An *Cytospora?*».

19. **Næmospora conica** Preuss F. Hoyersw. n. 329. — Emersa, con- 3924
ceptaculo proprio, conico-difformi, cornea, subferruginea; cellulis circinantibus, ovatis, ferrugineis, in conceptaculis infossis; disco papilliformi perforante; basidiis brevibus, filiformibus; conidiis fusiformibus, utrinque obtusatis, curvatis; episporio cum nucleo confuso, albo.

Hab. in trabe quercina, Hoyerswerda. — «An *Cytospora?*».

MELANCONIUM Link in Willd. Sp. pl. Fungi II. p. 91 (Etym. *melas* niger et *conia* pulvis seu conidia) *Callosisperma* Preuss p. max. parte. — Acervuli vel nuclei subcutanei, conoidei v. disciformes, atri. Conidia in apice basidiorum solitarie acrogena e globoso oblonga, continua, fuliginea, denique in granulos v. cirros atros erumpentia et matricem fœdantia. — Sistit plerumque statum conidium *Melanconidis* v. *Melanconiellæ*. — Plures species auctorum veterum dubiæ sunt v. forte aliarum communium meræ formæ; quædam conidiis subfusoideis donatæ forte ad genus *Cryptomelam* propius accedunt.

I. *In Dicotyledoneis vel plantis incertis.*

1. **Melanconium cerasinum** Peck 33 Rep. St. Mus. 26. — Acervulis distinctis, minutis, albis; conidiis inæqualibus, globosis, ovatis, eltipticis v. oblongis, 16–25 μ. longis, plerumque late 1-nucleatis. 3925

Hab. in cortice emortuo Pruni virginianæ, Center Americæ borealis.

2. **Melanconium griseum** Schw. Syn. Amer. bor. n. 2966. — Acervulis minutis, atris, prorumpentibus ex epidermide, demum disco applanato; conidiis minutissimis globosis, subpellucidis, colore griseo, epidermidem tingentibus, in quam denique sparguntur. 3926

Hab. ad ramis Rubi Idæi in hortis Bethlehem Amer. bor.

3. **Melanconium fusiforme** (Pr.) Sacc. *Callosisperma fusiformis* Pr. F. Hoyersw. n. 332. — Innatum, erumpens, sparsum, epidermide fissa; peritheciis (?) lentiformibus, carneis; nucleo primo albo, tum atro; basidiis brevibus, filiformibus; conidiis oblongo-fusiformibus, coloratis; episporio glabro; nucleo curvato. 3927

Hab. in ramulis Pruni Armeniacæ, Hoyerswerda.

4. **Melanconium stromaticum** Corda Icon. Fung. I. p. 3, *Dapsilosporium stromaticum* Corda apud Sturm. p. 13, tab. 38. — Acervulis conicis, subcutaneis, stromate albido suffultis; conidiis obovatis, basi subapiculatis, intus granulosis, fuscis, effuso-fœdantibus. 3928

Hab. in ramulis Piri, Fagi et Carpini in Germania.

5. **Melanconium Monotospora** (C.) Sacc. *Stilbospora monotospora* Cooke in Grevillea. — Subcorticalis, erumpens; acervulis orbicularibus; conidiis obovatis, continuis opacis, atrobrunneis, 22–25 ≈ 20. 3929

Hab. in cortice Magnoliæ glaucæ in Carolina inf. (Ravenel). — Conidia quasi *Monotosporæ*.

6. **Melanconium viscosum** Schw. Syn. Amer. bor. n. 2964. — Acervis conidiorum provectiori ætate cum epidermide assurgentibus, sphæriæmorphis et quasi poro centrali apertis, quamvis carentibus ullo vero perithecio, sed epidermide solummodo inclusis; conidiis cylindrico-ovatis effusis demum per viscositatem ramuli, subpellucidis, non septatis. 3930

Hab. in ramulis emortuis Robiniæ viscosæ in hortis Nazareth Amer. bor.

7. **Melanconium globosum** Cooke et Harkn. Grev. 1881 p. 128. — Discoideum, erumpens, atrum; conidiis globosis, atro-fuscis, 10–11 μ. diam. 3931

Hab. in ramis Eucalypti in California.

8. **Melanconium Desmazierii** (B. et Br.) Sacc. Mich. II. p. 355, F. it. t. 1083. *Discella Desmazieri* B. et Br. Ann. N. H. n. 427 t. 12 fig. 8. α, *Epidochium Martensii* West. Not. IV. p. 13. — Acervulis subcutaneis, depresse pulvinatis, absque perithecio, nigris, non vel vix erumpentibus 1 mill. latis; conidiis breve fusoideis, utrinque obtusiusculis, 30-35 = 6-10, amœne azurreis, triguttulatis, basidiis filiformibus, sæpius furcatis, 50-60 = 1½, hyalinis suffultis. 3932

Hab. in ramis corticatis emortuis Tiliæ in Britannia, Gallia, Germania et Belgio.

9. **Melanconium longissimum** Bon. Abh. Geb. Mykol. I. pag. 49. — Acervulis subconvexis v. conicis atris; sacculis planis, obscure olivaceis, subplicatis, intus farctis, papillatis, hypostromate luteo, medio elevato; conidiis longis utrinque acutatis, simplicibus; cirris atris ex ostiolo papillæ erumpentibus. 3933

Hab. in cortice Tiliæ in Guestphalia.

10. **Melanconium Hederæ** Pr. F. Hoyersw. n. 312. — Sparsum; peritheciis (?) cum epidermide innata prominulis, convexis, tenuibus, nigris; ostiolo pertuso; pulpa conidiorum atra; basidiis filiformibus; conidiis ovatis, atro-fuscis, crasse 1-guttatis, episporio glabro. 3934

Hab. in ramulis Hederæ, Hoyerswerda. — « An *Coniothyrium?* ».

11. **Melanconium microspermum** Nees Syst. d. Pilze p. 32. — Conidiis minutis ovalibus v. ellipsoideis 6 = 5, fuligineis, 2-pluriguttulatis, in grumulos, epidermidem transigendo, coactis. 3935

Hab. in ramis emortuis Hederæ Helicis et Alni glutinosæ in Germania et Italia bor.

12. **Melanconium nephrospermum** Mont. in Castag. Suppl., p. 84, et Syll. Crypt. n. 1144. — Acervulis confertis subrotundis, punctiformibus atris, epidermide dealbata tectis; conidiis oblongo-reniformibus, magnis, fuscis, primitus stipite longo suffultis. 3936

Hab. in ramulis siccis et dejectis Jasmini fruticantis, apud Montaud-lez-Miramas Galliæ (Castagne).

13. **Melanconium punctiforme** Rabenh. Deutsch. Kr. Fl. n. 432. — Acervulis minutis, subcutaneo-erumpentibus, atris; conidiis globoso-ellipsoideis, majusculis, olivaceis, ex hypostromate subrotundo-depresso, flavido radiatim oriundis. 3937

Hab. in ramulis Lycii barbari, Dresden Germaniæ.

14. **Melanconium truncatum** Schw. Syn. Amer. bor. n. 2968. — Acervulis minoribus, sphæriomorphis, prorumpentibus ex epidermide, apice truncatis, aterrimis, demum subrotundis, effusis; conidiis pro ratione majoribus, ovatis et subdifformibus fuscis. 3938

Hab. in epidermide Sambuci canadensis passim, Bethlehem Americæ bor. — Affine *M. conglomerato*, gregarium quidem, sed non confluens.

15. **Melanconium cellulosum** B. et C. North Amer. Fungi n. 473. — Pustulis ellipticis, cuticulâ dein rimose fissa tectis; stromate celluloso; conidiis oblongis, nucleatis, 14–15 μ. longis. 3939

Hab. in sarmentis Rhois radicantis in Pensylvania Americæ borealis.

16. **Melanconium Oleæ** Thüm. Pilze d. Elb. p. 20. — Acervulis sparsis subparvis, verruciformibus, opace nigricantibus; conidiis ovoideis, crassiuscule tunicatis, grosse 2-nucleatis, 9–10,5 ≃ 6, fuligineis. 3940

Hab. in trunco Oleæ sativæ in Austria.

17. **Melanconium Sassafras** Schw. Syn. Amer. bor. n. 2965. — Acervulis globosis, cum epidermide assurgentibus ut tubercula sparsa, demum ruptis et longe lateque spargentibus conidia opaca, ovata. 3941

Hab. in junioribus ramis cæsarum arborum Lauri Sassafras, totam epidermidem circumcirca fuligineo-fusco colore tingens, Bethlehem Amer. bor.

18. **Melanconium Dothidea** Schw. Syn. Amer. bor. n. 2967. — Acervulis majoribus prorumpentibus, epidermide cinctis, disco aut superficie undulatim tuberculosa (*Dothideam Sambuci* referentibus) aterrimis, compositis (sub microscopio) ex conidiis majusculis, non septatis, cylindricis, utrinque rotundatis, fuligineis. 3942

Hab. in variis ramis præsertim Mori, Bethlehem Amer. bor.

19. **Melanconium populinum** Peck. Torr. bot. Club 1883, pag. 74. — Acervulis prominentibus, in fissuris longitudinalibus erumpentibus; stromate albo, minuto vel obsoleto; conidiis oblongis, nigris, 15–18 μ. long. in globulum nigrum expulsis. 3943

Hab. in ramis emortuis Populi, Jowa Amer. bor. (Ellis).

20. **Melanconium pallidum** Peck, Rep. on the St. Mus. New York. t. I. fig. 7–8. — Stromate minuto, flavido; conidiis in grumulos atros erumpentibus. ovoideis v. oblongis, subinde leniter curvis v. subcymbiformibus, pallidis, 15–16 μ. longis, sæpe grosse 2–3-nucleatis. 3944

Hab. in ramis Caryæ albæ, West Troy Amer. bor. — Conidia pallida, sed coacervata fusca.

21. **Melanconium oblongum** Berk. North Amer. Fungi n. 476. — Pustulis elevatis late conicis tectis; conidiis oblongis subinæquilateris, 1-guttatis, 20 μ. longis. 3945

Hab. in ramis Juglandis cinereæ, Massachusetts, Alabama, New Jersey, Greenbush Amer. bor. — Diversum dicitur a *Melanc. ovato.*

22. **Melanconium magnum** (Grev.) Berk. Outl. pag. 324, *Nemospora magna* Grev. Sc. Fl. t. 376. — Acervulis gregariis, totum truncum subinde occupantibus; conidiis ovoideis v. subovatis, continuis, fuscis, 25–37 μ. longis, in cirros longos exeuntibus. 3946

Hab. in truncis Juglandis regiæ, Aceris, Carpini, Caryæ in Bohemia, Britannia Amer. bor. — Forma in Juglande verisimillime non differt a *M. juglandino.*

23. **Melanconium Preussii** Sacc. *Callosisperma ovata* Preuss, F. Hoyersw. n. 331. — Gregarium, superficiale, peritheciis (?) corneis, ovatis, papillatis, nigris; nucleo gelatinoso, atro; basidiis filiformibus; conidiis ovatis, atris; episporio glabro, atro-corneo, nucleo repleto, 3947

Hab. ad ligna Juglandis regiæ, Hoyerswerda.

24. **Melanconium juglandinum** Kunze in Fic. Fl. Dresd. p. 260, *Mel. Juglandis* Corda Ic. III. p. 21, fig. 53, *Mel. ovatum* Auct. p. p. — Acervulis gregariis, tectis, prominulis, depresso-conoideis, atris, basi flavicante; conidiis obovatis, 25 ≃ 15, intus granulosis, fuligineis, pedicellis prælongis simplicibus v. furcatis fultis, mox in grumulos v. cirros aterrimos majusculos effluentibus. 3948

Hab. in ramis languidis Juglandis regiæ in Germania, Italia, Gallia. — Forma **diffusa** Corda (Ic. III. p. 22, fig. 59) acervulis confluendo effusis, hinc inde occurrit.

25. **Melanconium intermedium** Peck. Rep. on the St. Mus. New York. Inter *M. oblongum* et *M. magnum* medium; conidiis valde inæqualibus, subglobosis, ovatis, ellipsoideis vel oblongis, atris, 25 μ. longis. 3949

Hab. in ramis Caryæ, Buffalo et Greenbush Amer. bor. — Conidia majora quam in *M. oblongo* et minora quam in *M. magno.*

26. **Melanconium elevatum** Corda Ic. Fung. III. p. 22, fig. 60. — Stromate lato, albido, raro obliterato; conidiis ovoideis v. oblongis, brunneis, 12–13 μ. longis, coacervatis aterrimis. 3950

Hab. in ramis quercinis, Langridge Britanniæ et in Bohemia.

27. **Melanconium Papularia** Fr. S. M. III. p. 489, *Papularia Fagi* Fr. Syst. Orb. veg. p. 85. — Pustulis subrotundis, parum elevatis, confertis, extus cinereo-nigricantibus, epidermide diu velatis, dein eâ circumscissâ erumpentibus; conidiis globosis, minutis, atris. 3951

Hab. in foliis siccis Fagi in Suecia et Germania.

28. **Melanconium grande** C. et Ell. in Grev. t. 99, fig. 11. — Pustulis nigris, sparsis, epidermide cinctis, vix prominulis; conidiis magnis, obtuse lanceolatis, brunneis, continuis, 55-65 ≃ 18-20. 3952

Hab. in cortice Fagi, Potsdam N. York Amer. bor.

29. **Melanconium conglomeratum** Link Sp. pl. Fungi II. p. 92, *Mel. atrum* Link Obs. I. p. 3, t. I. f. 7. — Conidiis subglobosis minutis, atris, opacis laxis, in grumulos primum subrotundos dein effusos digestis epidermideque scissa cinctis. 3953

Hab. ad ramos emortuos sepimentorum in Germania, et Fagorum in Italia bor. — In speciminibus italicis, teste Rabenh. in Flora 1850. p. 631, conidia ex globoso ovoideo-oblonga, atro-brunnea, nucleo grumoso.

30. **Melanconium ellipticum** Corda Icon. Fung. I. p. 3, tab. 1, fig. 39. — Acervulis crassis, duris, nitidis, magnis, plerumque gyrosis, aterrimis; conidiis elongato-ellipticis, griseo-fuscis, subpellucidis. 3954

Hab. in cortice Castaneæ sativæ, Matta de Alcarraques pr. Coimbra in Lusitania; in ramis arborum et cortice truncorum emortuorum in Bohemia.

31. **Melanconium sanguineum** Rabenh. Deutsch. Kr. Fl. n. 437. — Acervulis elongatis, sublinearibus; conidiis ovato-oblongis, sursum acutatis, fusco-flavidis, hypostromate convexo, subcarnoso, subsanguineo oriundis. 3955

Hab. in cortice Castaneæ vescæ emortuo in Italia boreali (Rabenhorst, 1841).

32. **Melanconium cinctum** B. et C. North Amer. Fungi n. 474. — Pustulis nigris, epidermide cinctis; conidiis late obovatis, 20 μ. long. minute 1-nucleatis. 3956

Hab. in ramulis Castaneæ pumilæ in montanis Carolinæ superioris.

33. **Melanconium ramulorum** Corda Icon. Fung. I. p. 2 fig. 34 (ut var. *M. bicoloris*). — Acervulis sparsis, subcutaneis, depresso-conoideis, atris, hypostromate subolivaceo; conidiis ellipsoideis, 9-10 ≃ 7-8, deorsum apiculatis, guttulatis, fuligineis, basidiis filiformibus conidio triplo longioribus hyalinis suffultis, demum effuso-inquinantibus. 3957

Hab. in ramis corticatis Carpini in Bohemia, Germania, Gallia. — *Mel. effusum* Link, quocum nomine traditur etiam a dom. Libert, satis convenit.

34. **Melanconium sycophilum** Rabenh. Deutsch. Kr. Fl. n. 436. — Acervulis oblongis, atro-brunneis, epidermide cinctis; conidiis ob- 3958

longis, acutiusculis, fuscis, ex hypostromate subcarnoso, rubescente oriundis.

Hab. in ramis siccis Fici Caricæ inter Como et Varese Italiæ borealis (Rabenhorst, 1841).

35. **Melanconium sphæroideum** Link, Spec. pl. Fungi II. 92! ex cit. Moug., *Stilbospora microsperma* Moug. Stirp. Vog. — Acervulis minutis epidermide tumidula diu tectis, nigris; conidiis obovatis, utrinque, præcipue apice, obtusis, minutis, 10 = 6, 1-2-nucleatis, olivaceo-fuscis. 3959

Hab. in ramulis Alni glutinosæ in Vogesis.

36. **Melanconium oblongatum** Sacc. *Callosisperma oblonga* Pr. F. Hoyersw. n. 333. — Gregarium, erumpens; peritheciis (?) globosis, subcompositis, fusco-atris; papilla umbilicato-applanata, pertusa, fusca; nucleo atro; basidiis filiformibus; conidiis oblongis, fuscis; episporio glabro, atro-fusco; nucleo curvato, fusco, non firmo et guttulis oleosis repleto. 3960

Hab. ad ramos exsiccatos Alni glutinosæ, Hoyerswerda.

37. **Melanconium Stroma** (Pr.) Sacc. *Callosisperma Stroma* Pr. F. Hoyersw. n. 334. — Transversim erumpens, ellipticum, planiusculum, atrum; stromate fusco, in cortice rostellato distante levi; rostro superne subincrassato; peritheciis (?) stromati insertis, subcompositis; nucleis atris, mucosis, tum in cirros erumpentibus; basidiis filiformibus; conidiis ovatis, fuscis, episporio corneo, atro-fusco; nucleo fusco, curvato et guttula oleosa repleto. 3961

Hab. in ramis exsiccatis Alni glutinosæ, Hoyerswerda,

38. **Melanconium apiocarpon** Link Sp. pl. Fungi II. p. 90. — Conidiis majusculis obovato-piriformibus, 15 = 8-9, nucleatis, olivaceis, grumulos discoideos convexiusculos rotundos epidermide scissa cinctos infarcientibus. 3962

Hab. in ramis Alni glutinosæ in Germania et Gallia.

39. **Melanconium bicolor** Nees Syst. Pilz. p. 32, f. 27, Corda Ic. I. p. 2, fig. 33. — Stromate elevato prominulo, intus pallido; conidiis compactis, ellipsoideo-subglobosis, olivaceis v. olivaceo-brunneis, 12 = 6, guttulatis. 3963

Hab. in ramis Betulæ, Carpini et Quercus in Britannia, Germania, Gallia et Amer. bor.

40. **Melanconium piriforme** Pr. F. Hoyersw. n. 45. — Erumpens, gregarium, verruciforme; perithecio tenuissimo, stromate lato, fusco; acervis conidiorum atrorum diffluentibus; basidiis simplicibus, albis; conidiis obovatis piriformibusque, fuscis, pellucidis; nucleo granuloso-turbido et guttulis oleosis, magnis repleto. 3964

Hab. in cortice Betulæ, Hoyerswerda.

41. **Melanconium betulinum** Schm. et Kunze Crypt. Exs. n. 208, Fuck. Symb. myc. p. 190. — Acervulis subcutaneis, conico-discoideis, atris; conidiis obovoideis v. ovatis, crassiuscule tunicatis, 15–18 ≃ $6^1/_2$–$8^1/_2$ deorsum subacutatis, 1-guttatis v. granuloso-farctis. 3965

Hab. in ramis emortuis Betulæ albæ et B. verrucosæ in Germania, Gallia, Italia, Austria, Sibiria asiatica.

42. **Melanconium diffluens** Corda Ic. I. p. 2, tab. I. fig. 38. — Stromato nullo; acervulis diffluentibus, nigris, nitidis; conidiis muco spurio conglutinatis, ellipticis, olivaceis, intus nucleum obscurum, pulposum, granulosum referentibus. 3966

Hab. in ramis Carpini Betuli (et aliarum arborum?) in Germania.

43. **Melanconium cocciferum** (Corda) Rabenh. Deutsch. Kr. Fl. p. 46, *Dapsilosporium cocciferum* Corda Icon. Fung. I. pag. 3, tab. I. fig. 45. — Acervulis minutis punctiformibus, atris, plerumque seriatim aggregatis; stromate gelatinoso irregulariter effuso, pallide flavo; globulis minutis, atris rotundatis; conidiis minutissimis, globosis, fuscis subpellucidis. 3967

Hab. in ligno sicco Pini in Bohemia. — « An potius *Coniosporium?* ».

44. **Melanconium Taxi** Rabenh. Deutsch. Kr. Fl. n. 443. — Acervulis difformibus, atris, depressis; conidiis subclavatis, brunneis, ex hypostromate semigloboso, carnosulo pallido oriundis. 3968

Hab. in ramis emortuis Taxi baccatæ in Helvetia.

45. **Melanconium Pini** Corda Icon. Fung. I. p. 3, tab. 1, fig. 41. — Acervulis crassis, atris; stromate nullo; conidiis obovatis, basi v. utrinque acuminatis, fuscis, pellucidis, 9–10 μ. longis, nucleo concolore, guttulis oleosis duabus farcto. 3969

Hab. in cortice Pini in Bohemia et Rhenogovia. — Var. **cirratum** Corda Icon. Fung. I. p. 3, t. 1, fig. 42: acervulis cirratim erumpentibus; conidiis majoribus, olivaceo-fuscis, obovatis, acuminatis, nucleo concolori, guttulam oleosam solitariam referentibus, 11–12 ≃ 6. In cortice Pini in monte Jæscken Bohemiæ.

46. **Melanconium putredinis** Wallr. Fl. crypt. n. 1566. — Conidiis subglobosis atris opacis majusculis, primum grumulos, ovatos convexos nigrescentes constituentibus, dein effusis, cubilia longe lateque inquinantibus. 3970

Hab. ad ligna abietina fabrefacta, in humo uda congesta in Thuringia.

47. **Melanconium glutinatum** (Corda) Rabenh. Deutsch. Kr. Fl. n. 440, *Trichoconium glutinatum* Corda in Sturm. Krypt. Fl. t. 37. — Acervulis subcutaneo-erumpentibus, alte conoideis, aterrimis; conidiis obovato-piriformibus, atris; basidiis filiformibus furcatis longis. 3971

Hab. in cortice emortuo arborum fructiferarum in Bohemia.

48. **Melanconium varium** B. et C. North Amer. Fungi n. 475. — Pustulis liberis, elevatis, subtruncatis; conidiis oblongis, subinde curvulis, 4 μ. longis. 3972

Hab. in ramis emortuis, New England Amer. bor. (Sprague).

49. **Melanconium graphidioides** Mont. VIII. Cent. Plant. cell. nouv. p. 119. — Acervulis sparsis linearibus curvulis aut rectis, atris, cortice exteriori rupta tectis; conidiis tandem fuscis ex ovoideo-oblongis, fragilibus 20 μ. longis, sporophoris 40 μ. longis hyalinis fultis. 3973

Hab. in cortice arboris ignotæ circa Cayennam (Leprieur).

50. **Melanconium peritheciatum** Schw. Syn. Amer. bor. n. 2969. — Referens fere *Hypoxylon udum;* ligno impositos acervos, aggregatos efformans; e pseudoperitheciis pluribus conicis aut irregularibus compositi sunt acervuli, quasi acute interdum ostiolatis, demum pertusis, sæpe lineatim confluentibus; aqua immersa, tota massa diffluit in conidia majora globosa aut ovata, nigro-fuscescentia non septata, nec vestigium adest pseudoperithecii. 3974

Hab. in ipso ligno denudato passim, Bethlehem Amer. bor.

51. **Melanconium disseminatum** Link Sp. pl. Fungi II. p. 91. — Conidiis inspersis conglomeratis, subglobosis, minutis, atris, pellucidis. 3975

Hab. ad asseres semiputres passim in Germania et America bor. pr. Richmondville et Hunter. — « An potius *Coniosporium?* » Sec. Peck in Rep. on the St. Mus. N. Y. nuclei conidiorum occupant apices minutarum ligni protuberantiarum, veluti fungus putrescentiam ligni sibi proximi retardaret.

52. **Melanconium olivaceum** (Corda) Sacc. *Myxosporium olivaceum* Corda Icon. Fung. I. p. 1, tab. I. fig. 8. — Effusum, atrum; conidiis subglobosis, olivaceis, nucleo opaco, singulo farctis; muco luteo. 3976

Hab. in ligno et caulibus lignosis herbarum prope Pragam.

53. **Melanconium acutum** Corda Icon. Fung. I. p. 3. tab. 1, fig. 43 (v. *major*). — Acervulis effusis, atris, stromate nullo; conidiis minutis, obovatis, acuminatis, cinereis, subpellucidis. 3977

Hab. in cortice arborum emortuo, Pragæ in Bohemia. — Var.

minus Corda Icon. Fung. I. p. 3, t. 1, fig. 44: acervulis minoribus; conidiis minutissimis, obovato-acuminatis, aterrimis, impellucidis. In cortice arborum emortuarum, Pragæ in Bohemia.

54. **Melanconium oosporum** (Corda) Sacc. *Myxosporium oosporum* Corda Icon. Fung. I. p. 1, tab. I. fig. 1. — Effusum, fuscum, nitidum; conidiis ovatis, fuscis, 1-guttatis, 7 μ. longis; muco pallide luteo. 397

Hab. in ligno decorticato sicco in Bohemia.

55. **Melanconium effusum** Link Sp. pl. II. p. 91, Corda Icon. Fung. I. p. 91, p. 2, t. 1, fig. 35. — Acervulis crassis, effusis, atris, compactis; stromate albo; conidiis ovatis, atris, impellucidis. 3979

Hab. in cortice arborum in Germania.

56. **Melanconium ovoideum** Link Sp. pl. Fungi II. p. 90, Corda Icon. Fung. I. p. 2, t. 1, fig. 37. — Acervulis atris, diffluentibus; stromate spurio albido; conidiis ovato-rotundatis, luridis, subdiaphanis demum in grumulos depresse conoideos congestis. 3980

Hab. in ramis emortuis arborum frondosarum in Germania.

57. **Melanconium cryptosporium** Corda Icon. Fung. I. p. 2, t. 1, fig. 36. — Acervulis bullosis, epidermide semper tectis; stromate albo, minuto; conidiis aterrimis impellucidis, ovato-oblongis. 3981

Hab. in ramulis arborum frondosarum emortuis in Germania.

58. **Melanconium ovatum** (Pers.) Link Sp. pl. Fungi II. p. 90, *Stilbospora ovata* Pers. Syn. p. 96. — Conidiis magnis e figura ovali magis minusve basi tenuatis piriformibus atris pellucidis, in grumulos primum convexos dein effuso-deplanatos congestis epidermidemque transfusam obliterantibus. 3982

Hab. ad arborum languidarum corticem siccum in Germania, Gallia. — Secundum Corda *Melanc. ovatum* v. *fusiforme* Auctorum p. p. ad *Steganosporium piriforme* spectat.

II. *In Monocotyledoneis et Acotyledoneis.*

59. **Melanconium melanoxanthum** B. et Br. F. of Ceyl. n. 804. — Pustulis orbicularibus erumpentibus, floccis granulisve flavis cinctis; conidiis subglobosis angulatisve 15 μ. longis. 3983

Hab. in petiolis Caryótæ urentis aliarumque palmarum in insula Ceylon et Mauritii. — Habitus fere *Stictidis*. — Forma **major**: pustulis zona coffeicolori cinctis, majoribus. In caule monocotyledoneo in Ceylon (Beccari).

60. **Melanconium Palmarum** Cooke in Ravenel Fungi Amer. — Pu- 3984

Grevillea VII p. 33, 1878

stulis erumpentibus, convexis, atris, centro pallidis; conidiis ovatis, atro-brunneis, 12 ≃ 10.

Hab. in foliis petiolisque Sabal, Darien Georgiæ.

61. **Melanconium Pandani** Lév. in Ann. Scienc. natur. Bot. 1845 p. 66. — Acervulis erumpentibus, atris, crassiusculis, prominentibus, 1-1½ mill. diam.; conidiis oblongis, apice rotundatis, deorsum subacutatis, 8-9 ≃ 4-5, 2-guttatis, olivaceis, basidiis prælongis, filiformibus, ramulosis, tortuosis, hyalinis, plerumque 40-50 ≃ 3 suffultis. 3985

Hab. in foliis Pandani culti Paris (Léveillé) et Lyon (Therry).

62. **Melanconium americanum** Peck Rep. on the St. Mus. New York. — Acervulis minutis subaggregatis v. in maculis subcircularibus circinantibus; stromate nullo v. obsoleto; conidiis compactis, subglobosis v. late ellipsoideis, 5-7 μ. longis, in grumulos conoideos effluentibus, matricemque atrantibus. 3986

Hab. in foliis emortuis Agaves americanæ in hortis, Buffalo Amer. bor.

63. **Melanconium Typhæ** Peck Bot. Gaz. p. 275. — Acervulis perexiguis, punctiformibus vel anguste oblongis, epidermide denique longitudinaliter v. irregulariter fissa velatis; conidiis oblongo-fusoideis, atris, 10-14 ≃ 4, basidio proprio sæpius persistenter hærentibus. 3987

Hab. in foliis emortuis Typhæ angustifoliæ, Charlotte, Vermont Amer. bor. (C. G. Pringle).

64. **Melanconium Secalis** Lib. in Herb., Cooke in Grevillea. — Acervulis minimis, globosis, nigris, primo tectis, demum fisso-erumpentibus; conidiis ovalibus, atris, simplicibus, cirratim erumpentibus. 3988

Hab. in culmis Secalis cerealis in Arduennis (Libert).

65. **Melanconium sphærospermum** (Pers.) Link Sp. pl. Fungi II. p. 91, *Stilbospora sphærosperma* Pers. Syn. p. 97. — Acervulis compactis, oblongo-compressis, epidermide tumidula vix fissa tectis; conidiis globoso-depressis 8-10 μ. diam., 6-7 μ. cr., farctis, fuligineis. 3989

Hab. in culmis Phragmitis communis, Arundinis Donacis, Arundinariæ giganteæ in Germania, Italia, Gallia, Britannia, Lusitania. — *Gymnosporium inquinans* Berk. Grev. VII. p. 45 huc forte spectat. A typo *Coniosporii* v. *Papulariæ* conidiis conglutinatis tectisque differt, a *Melanconiis* veris autem nisi basidiis minus evolutis non differt. Videretur tamen potius forma tecta compacta *Coniosporii* (Papulariæ) *Arundinis* Corda.

66. **Melanconium Donacis** Thüm. Contr. Myc. Lusit. n. 190, *Melanconium sphærospermum* Link. var. *Donacis* Thüm. in Rabh. Fungi europ. n. 1573. — Acervulis ellipticis, longis, numerosis, erumpentibus, longe diu epidermide tectis, postremo liberis pulverulentisve, aterrimis; conidiis plus minusve globosis vel etiam sæpe ellipsoideis, fuligineis, cum nucleo medio concolori magno, 5–8 μ. diam. 3990

Hab. ad culmos emortuos subputridos Donacis arundinaceæ, Baleïa prope Coimbra Lusitaniæ (Moller).

67. **Melanconium parasiticum** West. Not. IV. p. 12, Kickx Fl. cr. Fl. II. p. 92. — Acervulis rotundis v. oblongis, prominulis, atris, epidermide tectis, dein rimose erumpentibus; conidiis ovoideis, brunneis, subpellucidis, 7,5–10 μ. longis. 3991

Hab. in ramis Clavariæ aureæ in Belgio.

CRYPTOMELA Sacc. (Etym. in mentem revocat *Cryptosporium* et *Melanconium*, inter quæ fere medium genus), *Cryptosporium* Auct. p. p. — Acervuli seu nuclei subcutanei v. demum erumpentes, atri, minuti. Conidia fusoidea, sæpe curvula, atra.

1. **Cryptomela Caricis** (Corda) Sacc. *Cryptosporium Caricis* Corda in Sturm Crypt. Fl. II. t. 50. — Peritheciis perexiguis, vix conspicuis, hypophyllis, crebris, depresso-subrotundis, brunneis; conidiis fusoideis, rectis vel curvis, utrinque acutis, brunneis, subdiaphanis. 3992

Hab. in foliis Caricum in Bohemia, Britannia, Amer. bor.

2. **Cryptomela atra** (Kunze) Sacc. *Cryptosporium atrum* Kunze Myk. Heft. I. p. 3, t. 1, f. 1, Corda in Sturm Deutsch. Kr. Fl. t. 49. *Cr. graminis* Fr. S. M. III. p. 482. — Acervulis minutis, elongatis v. ellipticis, tarde erumpentibus, atris; conidiis fusiformibus curvis utrinque acutis, compactis, nigricantibus opacis. 3993

Hab. ad culmos et folia graminum, Caricum præprimis, languida, circa Lipsiam (Kunze), Berolinum (Eisenhart, Link).

3. **Cryptomela Ammophilæ** (Dur. et Mont.) Sacc. *Cryptosporium Ammophilæ* Dur. et Mont. in Mont. Syll. n. 996. — Pseudo-peritheciis punctiformibus, atro-nitentibus, stromate tenui celluloso deplanato suborbiculari atro; basidiis brevissimis; conidiis oblongo-fusiformibus atro-brunneis. 3994

Hab. in foliis siccis Ammophilæ arenariæ, La Calle Algeriæ (Durieu).

4. **Cryptomela Arundinis** (Dur. et Mont.) Sacc. *Cryptosporium Arundinis* Dur. et Mont. in Mont. Syll. n. 995. — Pseudo-peritheciis innatis, mox denudatis, minutis, punctiformibus, convexis, atris, stromate celluloso succineo immersis; conidiis olivaceis fusiformibus, altero fine guttula hyalina notatis et pedicellatis. 3995

Hab. in foliis vaginisque Arundinis giganteæ in Alger (Durieu).

5. **Cryptomela confluens** (Kunze) Sacc. *Cryptosporium confluens* Kunze in Fr. Syst. Myc. III. p. 483. — Stromate nullo; acervulis oblongis sæpe confluentibus; conidiis ovalibus rectis, atris, seriatim secedentibus. 3996

Hab. ad folia Panici in Gujana (Weigel). — « An *Melanconium?* ».

6. **Cryptomela betulina** (Corda) Sacc. *Cryptosporium betulinum* Corda Icon. I. p. 2, fig. 32. — Acervulis atris, tectis; conidiis subfusiformibus, minutis, fuscis. 3997

Hab. in ramulis Betulæ carpathicæ prope Pragam in Bohemia.

THYRSIDIUM Mont. Ann. sc. nat., 2, VI. p. 338, et Fl. Alg., I. p. 324 (Etym. a *thyrsos*, ob conidiorum dispositionem). *Myriocephalum* De Not. non Benth., *Cheirospora* Fr., *Hyperomyxa* Corda. *Rhabdosporium* Chev. — Stroma gelatinosum, subcorticale, epidermide tectum, dein eadem rupta erumpens, atro-inquinans; basidia flocciformia, hyalina, tenuissima, ramosa, continua aut obsolete septata, undique irradiantia; conidia globulosa in series cheiromorphas moniliformi-concatenata, olivaceo-fuliginosa, semiopaca atque in capitula terminalia thyrsoidea aut sphærica, muco obvoluta, arcte conglomerata.

1. **Thyrsidium hedericolum** (De Not.) Dur. et Mont. Fl. Alg. I. p. 325. Sacc. F. ital. t. 1099. *Myriocephalum hederæcolum* De Not. Micr. ital. III. p. 18, f. 10, *M. densum* Fuck. Enum. Fung. Nass. p. 23. — Acervulis gregariis, globoso-depressis, atris, epidermide velatis, mox in grumulos tremelloideos plano-convexos effluentibus; stromate pallido subgelatinoso; basidiis filiformibus dichotomis v. ramosis; conidiis minutis, globosis, in capitula subsphærica dense conglomeratis, olivaceis 3 μ. diam. 3998

Hab. in ramulis Hederæ Helicis in Italia, Germania, Britannia, Gallia. — Var. **Carpini**. In ramulis Carpini Betuli et C. americanæ in Gallia, Germania, Amer. bor.

2. **Thyrsidium botryosporum** Mont. Syll. p. 310 et Ann. Sc. nat. 1836, t. XVIII. f. 5, Fres. Beitr. t. 5, f. 9, Sacc. F. it. t. 1100, *Myriocephalum botryosporum* Fres. Beitr. p. p. t. V. f. 8, 9. *M. laxum* Fuck. Enum. Fung. Nass. p. 23, *Rhabdosporium diffusum* Chev. — Acervulis minutis convexis conicisve, epidermide rupta atro-inquinatis; conidiis globoso-obovatis, olivaceis, fuscescentibus, in capitula subrotunda laxe conglomeratis, 3 ≃ 2,5–3. 3999

Hab. in ramulis fagineis in Gallia, Germania, Italia, Belgio, America boreali.

3. **Thyrsidium Micheneri** (B. et C.) Sacc. *Cheirospora Micheneri* B. et C. North Am. Fungi n. 492. — Soris elevatis, minutis; capitulis longe pedicellatis globosis v. irregulariter obovatis, fuscis e conidiis globosis indefinitis, membranâ tenui circumdatis; basidiis subinde furcatis. 4000

Hab. in ramis Carpini in Pensylvania Amer. bor. — «An diversum e *Th. hedericolo* f. *Carpini?*».

4. **Thyrsidium betulinum** Karst. F. Vain. p. 142. — Acervulis sparsis, innato-erumpentibus, pulvinatis, subdepressis, orbicularibus v. ovoideis v. ellipsoideis, atris, levibus, 0,2–0,4 mill. diam.; basidiis valde flexuosis, continuis, fuligineis, pellucidis, 6 μ. cr.; conidiis in glomerulos sphæroideos v. ovoideos, usque ad 34 μ. diam., congestis, sphæroideis, fuligineis, diaphanis, 6–10 μ. diam. 4001

Hab. ad corticem levem induratum Betulæ albæ, Köngäs ad mare glaciale et in M. Sallatunturi ad 'Knolajärvi.

5. **Thyrsidium oblongum** (Fuck.) Sacc. *Myriocephalum oblongum* Fuck. Symb. myc. p. 351, tab. I. fig. 9. — Acervulis erumpentibus, aterrimis; conidiorum capitulis oblongis, densis; conidiis globosis; basidiis filiformibus subinde furcatis. 4002

Hab. in ramis siccis Abietis excelsæ, raro pr. Œstrich Rhenogoviæ.

6. **Thyrsidium turbinatum** (Bon.) Sacc. *Hyperomyxa turbinata* Bon. Handb. p. 150. — E ligno erumpens, brunneum; basidiis radiantibus apice capituligeris, anastomosantibus, apice non inflatis. 4003

Hab. in lignis in Guestphalia.

7. **Thyrsidium stilbosporoides** (Corda) Sacc. *Hyperomyxa stilbosporoides* Corda Icon. fung. III. p. 34, fig. 89. — Acervulis punctiformibus, gregariis, nigris, emergentibus; stromate albo; hyphis ramosis, filiformibus; conidiis globoso-oblongis inæqualibus, fuscis, guttulatis, 5,5–6,5 μ. longis, in capitula oblonga v. obovata densiuscule congestis. 4004

Hab. in fragmentis ligneis (primitus corticatis?) Coryli Avellanæ, Reichenberg Bohemiæ.

DIDYMOSPORIUM Nees Syst. p. 33, em. Sacc. Mich. II. p. 11 (Etym. *didymos* et *spora*). — Acervuli saprogeni, globosi vel oblongi tecti, mox erumpentes. Conidia oblonga vel fusoidea, 1-septata, fusca v. fuliginea, sæpius breve stipitata. — Plures veterum species, male exploratæ, propius forte spectant *Melanconium* vel *Dicoccum* vel *Coniothecium*.

1. **Didymosporium Striola** Sacc. F. it. 1098, Mich. II. p. 540. — Acervulis gregariis punctiformibus, atris, innato-erumpentibus, discoideis; conidiis oblongis, deorsum acutiusculis, constricto-1-septatis, 7–10 ≃ 4–5, binucleatis, fuligineis; basidiis bacillaribus conidio paullo brevioribus, hyalinis e strato proligero fusco oriundis. 4005

Hab. in ramulis languidis Lycii europæi, Licata Siciliæ (V. Beltrani).

2. **Didymosporium atro-cœruleum** Oud. Mat. Myc. Nederl. II. p. 26 t. IV. f. 2. — Acervulis subcutaneo-erumpentibus, atro-cœruleis; conidiis ovoideis v. obovoideis initio hyalinis continuis, dein atro-cœruleis, 1-septatis, non v. vix constrictis, 25–30 ≃ 12–15; basidiis filiformibus, conidio triplo fere longioribus. 4006

Hab. in ramis Urostigmatis Neumanni in horto bot. Amsterdam Neerlandiæ.

3. **Didymosporium culmigenum** Sacc. F. ital. t. 1097, Mich. II. p. 539. — Acervulis gregariis innato-erumpentibus, punctiformibus, atris; conidiis oblongo-fusoideis, constricto-1-septatis, utrinque acutiusculis, rectis curvulisve, 14–15 ≃ 5–6, biguttatis, fuligineis; basidiis bacillaribus, 5–8 ≃ 1 e strato proligero parenchymatico fusco oriundis, hyalinis. 4007

Hab. in culmis Sorghi vulgaris, Selva (Treviso) Ital. bor. — Conidia initio continua, hyalina.

4. **Didymosporium Carpini** Corda Icon. fung. I. p. 7, fig. 106. — Acervulis ovalibus v. oblongis, transversim positis, parum prominulis, atris, epidermide fissa cinctis; conidiis ovoideis, utrinque obtusiusculis, 1-septatis, non constrictis, brunneis, subpellucidis, loculis sæpe inæqualibus; basi stromatica albida. 4008

Hab. in ramulis Carpini Betuli in Bohemia et Belgio.

5. **Didymosporium profusum** (Grev.) Fr. S. Mich. III. p. 487, *Stilbospora profusa* Grev. Sc. Crypt. Fl. t. 212, fig. 1. — Acervulis 4009

majusculis, conicis, subcutaneis, atris, centro erumpentibus; conidiis minutis ovoideo-oblongis, 1-septatis, atris, dein effluentibus.

Hab. in ramis corticatis Fagi silvaticæ et Aceris Pseudoplatani et Platanoidis, Edinburgh Scotiæ et in Suecia. — Species omissa in mycographiis anglicis Berkeleyi et Cookei.

6. **Didymosporium effusum** Schw. Syn. Amer. bor. n. 2974. — Acervulis subelongatis ovato-convexis, subhysteriomorphis, interdum rotundatis, disco impressis, nigris, plerumque prorumpentibus et confluentibus, epidermide cinctis, sed etiam omnino liberis; conidiis copiosis pellucidis, didymis profluentibus lateque effusis. 4010

Hab. in cortice suberoso putrido Ulmi fulvæ, Bethlehem Americæ borealis.

7. **Didymosporium erumpens** Schw. Syn. Am. bor. n. 2975. — Acervulis ovato-ellipticis, erumpentibus, epidermide cinctis, disco impresso et passim colliculoso, sæpe confluentibus et aterrimis; conidiis crebris, oblongis, didymis; sporodochio 2-4 mill. diam. 4011

Hab. in ramis Celastri per epidermidem erumpens, Bethlehem Americæ borealis.

8. **Didymosporium minutissimum** Schw. Syn. Amer. bor. n. 2976. — Acervulis minutissimis longe lateque ex epidermide more Sphæriarum erumpentibus, nigris, epidermide subtectis, subglobosis; conidiis minutissimis globosis sed uniseptatis aut quasi ex duobus hemisphæris constantibus. 4012

Hab. in cortice Populi italicæ et Platani, Bethlehem Amer. bor.; in ramis Platani occidentalis, Buffalo (Clinton in Peck Rep. sub *Melanconio*).

9. **Didymosporium acuminatum** Schw. Syn. Amer. bor. n. 2977. — Acervulis minutis subcorticalibus transversim prorumpentibus; sporodochio intus albo, spurio; conidiis didymis, crebris, utrinque acuminatis. 4013

Hab. non rarum in cortice juniore ramorum Betulæ, Bethlehem Amer. bor. — Structurâ internâ non dissimile a *D. elevato* seu *Melanconio bicolore*, sed multo minus. « An potius ergo *Melanconium?* ».

10. **Didymosporium Celtidis** Schw. Syn. Amer. bor. n. 2973. — Acervulis subfasciculatim ex cortice prominentibus, difformibus, nigris; conidiis compactis, didymis, utrinque subacutis, fuscescenti-nigris creberrime profluentibus, lignum et corticem inquinantibus. 4014

Hab. in ramis valde corruptis Celtidis occidentalis, Bethlehem Amer. bor.

11. **Didymosporium corticale** Schw. Syn. Amer. bor. n. 2979. — Acer- 4015
vulis effusis, tenuissimis, applanatis, plerumque orbiculatis, tuberculos minutos referentibus; conidiis didymis, nigris, quasi ex duobus globulis formatis.

Hab. in cortice glabrato Rhois, Bethlehem Amer. bor.

12. **Didymosporium Calycanthi** Schw. Syn. Amer. bor. n. 2978. — 4016
Acervulis elliptico-difformibus, confluentibus, longitudinaliter erumpentibus, epidermide cinctis; sporodochio irregulari, subconvexo, applanato, fusco-nigro; conidiis oblongis, utrinque subacutis, didymis.

Hab. passim in ramulis Calycanthi emortui, Bethlehem Americæ borealis.

13. **Didymosporium? macrospermum** Corda Ic. IV. p. 5, fig. 17, Fres. 4017
Beitr. p. 104, t. XII. fig. 39-41. — Acervulis atris, gregariis minutis, opacis; conidiis ovoideis, fuscis, utrinque pallidioribus, ad medium annulo septiformi (septo?) atro ornatis, 12-15 = 5-6; basidiis nullis v. obsoletis.

Hab. in ligno putri quercino in silvis et cellis vinariis in Bohemia et Rhenogovia. — Uterque conidii loculus medio denique tenuiter dividitur et tunc conidium 3-septatum evadere videtur. Fungillus probabiliter inter *Hyphomycetes demetieos* aptius militaret. Secundum B. et Br. ad *Coryneum macrospermum* suum pertinet, quod oppugnat cl. Fresenius l. c.

14. **Didymosporium conglutinatum** Corda Ic. fung. II. p. 5, fig. 23. — 4018
Acervulis libere (?) evolutis, confluentibus, aterrimis, hypostromate te gelatinoso, granulis atris, minutissimis, molecularibus repleto dein diffluente; conidiis didymis oblongis, episporio crasso, atro, nucleo luteolo homogeneo.

Hab. in foliis Quercus, parasitice, teste Corda, supra *Cladosporium epiphyllum*, pr. Prag Bohemiæ.

II. *Epiclinium* Fr. Summa V. S. p. 475.

Conidia pedicellata adnata stromati corneo, marginato et dein in tuberculum corneum coalita.

15. **Didymosporium pezizoideum** Schw. Syn. Amer. bor. n. 2972. — 4019
Acervulis pezizoideis, marginatis, cinereo-atris, dense aggregatis et epidermide stellatim rupta cinctis; disco 1-2 lineari diam., impresso; forma acervulorum quasi angulata, ob mutuam pressionem; juniore ætate sporodochium undique conidiis crebris nigris, uniseptatis onustum; denique conidia fere coalescentia cum sporodochio indurato et intus subcorneo et albido.

Hab. passim in cortice putrido ramorum Mori albæ, gregarie crescens, Bethlehem in America boreali. — An novum genus? (præeuntibus Schweinitz et Fries.). — Ad pedalem longitudinem aggregati acervi ambiunt ramos et cum cortice fibroso faciliter evelli possunt.

BULLARIA DC. Fl. Fr. II. p. 226 (Etym. a *bulla*), *Phragmotrichum* Corda p. p. — Acervuli subcutanei, caulogeni. Conidia oblonga, medio 1-septata vel didyma, fusca, per filamenta hyalina conjuncta et catenulatim digesta. — Est quasi *Phragmotrichum* sed conidia didyma.

1. **Bullaria Umbelliferarum** DC. Fl. Fr. II. p. 226, *Phragmotrichum Bullaria* (Link) Corda Ic. fung. I. p. 10, f. 149, *Puccinia Bullaria* Link Sp. pl. Fungi II. p. 78, *Stilbospora bullata* Link. — Acervulis oblongis minutis, epidermide bullosa tectis dein erumpentibus; basi stromatica pallida; conidiis oblongis, utrinque truncatis, 1-septatis, non constrictis, pallidis, dein fuscis, sæpe 2-guttatis, 16–18 μ. longis, filamentis connectivis filiformibus conidium subæquantibus, hyalinis continuis; basidiis bacillaribus dichotomis. 4020

Hab. in caulibus siccis Umbelliferarum majorum e. g. Libanotis in Gallia, Bohemia, Belgio et Germania.

SEPTOMYXA Sacc. (Etym. *septum* et *myxa* h. e. *Myxosporium*, conidiis 1-septatis). — Nuclei vel acervuli globoso-depressi, subcutanei, demum suberumpentes, sæpe læticolores, carnosuli. Conidia ellipsoidea vel oblonga, 1-septata, subhyalina. — Est quasi *Myxosporium* conidiis 1-septatis.

1. **Septomyxa persicina** (Fres.) Sacc. *Nemospora persicina* Fres. Beitr. p. 33, t. III. f. 53–55. — Acervulis depresso-conoideis, subcutaneis, dein erumpentibus, intus albidis, minutis; conidiis oblongis, constricto-1-septatis, utrinque rotundatis, rectis vel leniter curvis, 11–14 = 3, subhyalinis in cirros elongatos tortos pulchre persicinos effluentibus. 4021

Hab. in epicarpio Cucurbitæ putrescentis in Germania.

2. **Septomyxa Æsculi** Sacc. *Myxosporium? aberrans* Sacc. Mich. I. p. 128, *Cryptosporæ Æsculi* status conid. Fuck. Symb. p. 193. — Nucleis gregariis, subcutaneis dein erumpentibus, varie sinuosis sordide roseis; conidiis e strato prolifero ochraceo fasciculatim oriundis, stipitatis, ovato-fusoideis, rectis curvulisve, 1-septatis, sæ- 4022

pius constrictis, 15–16 ≃ 3–4, e hyalino dilutissime roseis; basidiis cylindraceo-conoideis, conidio paullo longioribus.

Hab. in cortice Æsculi Hippocastani in horto botanico Berolinensi (P. Magnus) et in Rhenogovia (Fuckel).

3. **Septomyxa exulata** (Jungh.) Sacc., *Didymosporium exulatum* Jungh. Præm. Fl. Java, p. 3. — Acervulis convexis, pulvinatis, sparsis, subepidermicis, incarnatis, subpulverulentis; conidiis majusculis, ovoideis, medio septatis, carneis, in nucleum conglutinatis. 4023

Hab. in corbiculis e ramis salicinis contextis in navigio prope insulam Javam.

MARSONIA Fisch. in Raben. F. Eur. n. 1857, Sacc. Mich. II. p. 11 (Etym. a cl. Th. Marsson, botanico germanico). — Acervuli biogeni, semper vel diu foliorum epidermide tecti, globoso-discoidei, pallidi. Conidia ovoidea vel oblonga, 1-septata hyalina. — Est *Glœosporium* conidiis 1-septatis.

1. **Marsonia Populi** (Lib.) Sacc. F. it. t. 1062, *Glœosporium Populi* (Lib.) Mont. et Desm. Exs. n. 2129. *Leptothyrium Populi* Lib. Ard. p. 257, Desm. XIII Not. (1846) p. 67, *Asteroma labes* Berk., *Gl. labes* B. et Br., Cooke Handb. p. 474, *Glœosp. Berkeleyi* Mont. Ann. Sc. nat. 1849, XII. p. 296. — Maculis suborbicularibus, epiphyllis, subinde confluentibus, brunneis, sæpius atro-marginatis; acervulis convexis dein applanatis, fulvescentibus; conidiis obovato-subpiriformibus, 20 ≃ 12, 1-septatis, leniter constrictis, rectis v. curvulis; cirris albidis, sæpe vero obsoletis. 4024

Hab. in pagina superiore foliorum Populi nigræ, italicæ et albæ in Gallia, Britannia, Belgio, Italia, Austria, Germania. — *Glœosporium Castagnei* Mont. Syll. p. 195, huic valde affine, differt maculis minus atris, conidiis angustioribus, non constrictis; hinc *Gl. Populi* Oud. Mat. Neerl. II. p. 29, t. X. f. 17 videtur potius *Gl. Castagnei*.

2. **Marsonia piriformis** (Riess) Sacc. *Didymosporium piriforme* Riess in Hedw. I. p. 23 cum icone, Oud. Mat. Myc. Neerl. II. p. 73, tab. XII. fig. 27. — Endophyta, solitaria aut gregaria, macula nigro-fusca circumdata, epidermidem in pustulas minutas extollens; conidiis ex stromate tenuissimo celluloso natis, albis, pellucidis, oblongo-piriformibus, 20–21 ≃ 8–10, infra medium 1-septatis et distincte constrictis; basidiis bacillaribus conidio quarta parte brevioribus. 4025

Hab. in pag. sup. foliorum vegetorum Populi albæ in Ger-

mania et Hollandia. — Fungillum cum *Marsonia Populi* v. *M. Castagnei* collidere autumavi, sed icon. in Oud. l. c. diversam rem sistere videtur; dubium tamen gravissimum restat.

3. **Marsonia Castagnei** (Desm. et Mont.) Sacc. F. ital. t. 1068, *Gloeosporium Castagnei* Desm. et Mont., Cent. VI. n. 79, l. c. et Castagne, Supplem., p. 58, t. IX. — Epiphylla in maculis orbicularibus confluentibus, brunneis; conidiis oblongo-clavatis, 18–20 ≃ 7–8, 1-septatis non vel lenissime constrictis, hyalinis, brevissime pedicellatis; cirris niveis crassis. 4026

Hab. in pagina superiore foliorum Populi albæ, Montaud et Aix in Gallia meridionali (Castagne), in Vogesis (Mougeot), prope Hattenheim (Fuckel).

4. **Marsonia truncatula** Sacc. Mich. II. p. 354. F. ital. t. 1064, *Gloeosporium truncatulum* Sacc. M. V. n. 971 et Mich. I. p. 221. — Maculis arescendo ochraceis, variis; acervulis gregariis hypophyllis e rotundo angulosis, fulventibus vix prominulis; conidiis obovoideis, 8–10 ≃ 4–5, 1-septatis, loculo superiore crassiore, inferiore truncato, viridulis. 4027

Hab. in foliis languidis Aceris Negundinis et Aceris campestris in Italia, Gallia, et Germania. — Suspicor speciem hanc eamdem esse ac *Didymosporium Aceris* (Lib.) Mont. h. e. *Cheilaria Aceris* Lib. seu *Ascochyta Aceris* (Lib.) Fuck. Sec. Hoffm. Ind. 49 cum hac specie quoque synonyma sunt *Depazea Aceris* Desm., *Dep. acericola* Desm., *Sphæria acericola* Duby; exemplaria vero et descriptio completa mihi desunt. *Phyllosticta destruens* f. *Negundinis* Thüm. F. A. n. 1284 (nec Desm.) huc pertinet.

5. **Marsonia Juglandis** (Lib.) Sacc. F. ital. t. 1065, *Leptothyrium Juglandis* Lib. Exs. n. 164, *Gloeosporium Juglandis* (Lib). Mont. — Maculis hypophyllis, subcircularibus v. irregularibus, fusco-cinerescentibus; acervulis applanatis, rugulosis, brunneis, minutis; nucleo griseo; conidiis fusoideis, incurvis, apice subrostratis, 1-septatis, 20–25 ≃ 5, hyalinis. 4028

Hab. in foliis Juglandis regiæ et J. nigræ in Italia, Gallia, Germania, Britannia, Lusitania.

6. **Marsonia Thomasiana** Sacc. F. ital. t. 1067, *Gloeosporium Thomasianum* Sacc. Mich. I. p. 129. — Maculis parvis subcircularibus, amphigenis, rufis; acervulis in media macula erumpentibus, albidis; conidiis ex ovato oblongis utrinque rotundatis, constricto-didymis, 25–30 ≃ 12–15, quandoque loculo uno laterali accedente, 4029

rarius conidiis duobus confluentibus, 2–4-guttulatis, hyalinis, basidiis crassis oblongis, conidium subæquantibus, fultis.

Hab. in pagina superiore et inferiore foliorum languidorum Evonymi latifolii ad Soolenleitung am Fürstenstein bei Berchtesgaden in Salzkammergut (bei Reichenhall) in Bavaria (Doct. Fr. Thomas in herb. P. Magnus).

7. **Marsonia Neilliæ** Harkn. F. Calif. p. 11. — Maculis minutis, angulosis, brunneis; acervulis epiphyllis; conidiis hyalinis, curvis, 25–30 ≃ 8, prope medium constricto 1-septatis. 4030

Hab. in foliis vivis Neilliæ opulifoliæ, Berkeley Californiæ.

8. **Marsonia Loniceræ** Harkn. F. Californ. p. 11. — Maculis irregularibus, albis, brunneo-marginatis; acervulis sparsis, epiphyllis; conidiis clavatis, sæpe curvulis, hyalinis, 35–40 ≃ 7–9, prope basim septatis. 4031

Hab. in foliis vivis Loniceræ conjugalis, Sierra Nevada Californiæ.

9. **Marsonia Daphnes** (Desm. et Rob.) Sacc. F. ital. t. 1063 et Mich. II. p. 541, *Gloeosporium Daphnes* Oud. Mat. Myc. Neerl. II. p. 28, t. X. f. 14. *Septoria Daphnes* Desm. et Rob. X. Not. p. 22. — Amphigena; maculis viridulis irregularibus, dein fuscellis; acervulis, exiguis, sparsis v. gregariis, pallidis, tectis; cirris albidis; conidiis ovoideis, curvulis, utrinque acutis, prope basim uniseptatis, 20 ≃ 4–5, hyalinis, granulosis, brevissime septatis. 4032

Hab. in foliis subvivis Daphnes Mezerei in Gallia et Neerlandia. — « An eadem species ac *Leptothyrium Mezerei* Lib.? ».

10. **Marsonia Martini** Sacc. et Ell. Mich. II. p. 574. — Maculis amphigenis, minutis, ochraceis; pustulis in centro maculæ gregariis, sæpius hypophyllis, globulosis, subsuccineis, minutis; conidiis fusoideis, curvis, utrinque acutis, 1-septatis, leniter constrictis, 12–15 ≃ 2,5, 4-guttulatis, hyalinis; basidiis brevissimis viridulis. 4033

Hab. in foliis subvivis Quercus obtusilobæ, Chester Count. Pensylvaniæ (Doct. G. Martin).

11. **Marsonia Atragenes** Thüm. Pilzfl. Sibir. n. 678. — Acervulis sparsis, epiphyllis, lenticularibus, vix prominulis, ochraceis in macula subsinuosa, arescendo ochraceo-fusca, obscurius marginata; conidiis subcylindricis, utrinque rotundatis, rectis vel leniter curvatis, medio plerumque subinflexis et proinde calceiformibus, uniseptatis, sæpe binucleatis, 16–18 ≃ 6–7, hyalinis. 4034

Hab. ad folia viva Atragenes alpinæ in silvis prope lacum Bulakul in Sibiria asiatica.

12. **Marsonia Delastrei** (De Lacr.) Sacc. Mich. II. p. 119, F. it. tab. 1066, *Glœosporium Delastrei* De Lacr. in Mont. Cent. Cell. II. p. 345. — Maculis vagis, flavido-sordidis, amphigenis; acervulis minutis vix erumpentibus, lutescentibus; conidiis clavato-obpiriformibus, 20–25 ≃ 6–7, sæpe inæquilateralibus, infra medium denique 1-septatis, 4–5-guttulatis v. nubilosis, hyalinis, basidiis teretibus brevibus, 8–10 ≃ 3, suffultis. 4035

Hab. in utraque pagina foliorum Lychnidis dioicæ, L. chalcedonicæ, Agrostemmatis Githaginis, Silenes inflatæ in Gallia, Germania, Italia, Austria, Sibiria. — Specimina in Rabh. F. E. 2067, Oudem. F. n. 89, Schröt. P. Bad. 95 congruunt. *Glœosporium Lychnidis* Oud. Aanw. I. pag. 3, forte sistit statum immaturum.

13. **Marsonia Violæ** (Pass.) Sacc. *Glœosporium Violæ* Pass. Micr. ital. n. 18. — Acervulis epiphyllis, sparsis folium decolorantibus, castaneis; conidiis oblongis rectis vel curvis, subinde falcatis, primo integris, tandem obscure extra medium septatis, intus granulosis, 15–18 ≃ 5. 4036

Hab. ad folia languida Violæ bifloræ interdum cum *Puccinia Violæ* in Apennino parmensi (Lago santo) Italiæ borealis.

14. **Marsonia Potentillæ** (Desm.) Fisch. in Rabenh. F. Eur. n. 1857, Sacc. F. it. tab. 1070, *Glœosporium Potentillæ* (Desm.) Oud. in 26 Jarg. Ned. III. Beil. p. 3, *Phyllosticta Potentillæ* Desm. Ann. Sc. nat. VIII. pag. 31 (1847). *Leptothyrium Dryadearum* Desm. *Septoria Potentillarum* Fuck. — Maculis epiphyllis subcircularibus, sanguineis; acervulis tectis, lenticularibus, pallidis, minutis; conidiis oblongo-fusoideis, 20–25 ≃ 7–9, falcatis, apice subrostratis, 4-guttulatis, hyalinis; basidiis brevissimis. 4037

Hab. in pag. sup. foliorum subvivorum Potentillæ reptantis, P. fragarioidis, P. latifoliæ, P. anserinæ etc. in Gallia, Germania, Italia, Belgio, Sibiria.

15. **Marsonia andurnensis** (Ces.) Sacc. F. it. t. 1069 et Mich. p. 541, *Glœosporium andurnense* Ces. in Rabenh. F. Eur. n. 98. — Maculis nullis vel obsoletis; pustulis minutis, pallidis, tectis, leniter prominulis; conidiis clavatis, deorsum valde attenuatis, uniseptatis, 10–15 ≃ 5–6, granulosis, hyalinis; basidiis teretibus conidio brevioribus. 4038

Hab. in caulibus languidis Passerinæ annuæ prope Andorno (Cesati) et Vigheffio, Parma (Passerini).

16. **Marsonia Meliloti** Treal. Fung. Wiscons. p. 16. — Acervulis minutis inconspicuis, in series 2–5 mill. longas digestis; conidiis oblongis, rectis v. leniter curvis, 13–20 ≃ 5–6, bicellularibus, hyalinis; septo in majoribus infra medium, in minoribus ad medium sito; cirris pallide carneis. 4039

Hab. in caule Meliloti albæ, Madison Amer. bor.

17. **Marsonia smilacina** Thüm. Contr. Myc. Lusit. n. 457. — Acervulis epiphyllis, numerosis, minutissimis, fere punctiformibus, fuscis, emersis in macula irregulari, ochraceo-fusca, indeterminata, non marginata; conidiis paucis, cylindricis, subarcuatis, utrinque truncatulis, medio uniseptatis, achrois, 14–20 ≃ 4–5. 4040

Hab. in foliis vivis Smilacis mauritanicæ prope Coimbra Lusitaniæ (Moller).

STILBOSPORA Pers. Syn. Fung. p. 96, em. Sacc. Mich. II. pag. 11. (Etym. *stilbos* splendidus et *spora*, ob pulchritudinem conidiorum). Acervuli subcutanei conoidei v. disciformes, atri. Conidia oblonga v. fusoidea, 2-pluriseptata, fuliginea, denique cirrose protrusa et atro-inquinantia.

1. **Stilbospora brevis** B. et R. North Am. Fungi n. 477. — Subcorticalis; conidiis oblongis, utrinque obtusis, triseptatis, sero erumpentibus, latitudine sua triplo longioribus. 4041

Hab. in cortice juniore crassioreque Carpini in Carolina australi (Ravenel).

2. **Stilbospora thelebola** Sacc. Mich. II. p. 542, F. ital. t. 1104. — Acervulis pustulatis, cortice prominulo velatis erumpentibusque, nigricantibus; conidiis cylindraceo-oblongis, rectis, curvulis, flexuosisve, 32–40 ≃ 10–11, utrinque rotundatis, 3–5-septatis, ad septa haud constrictis, olivaceo-fuligineis; basidiis conidio brevioribus, acicularibus, hyalinis. 4042

Hab. in ramulis Alni glutinosæ, socià *Melanconide thelebolâ*, cujus *Stilbospora* videtur status conidiophorus.

3. **Stilbospora Kickxii** West. Exs. n. 880 et II. Not. p. 32, fig. 6, Kickx Fl. cr. Fl. II, p. 81. — Pustulis sparsis, parum elevatis, obtusis, peridermium elevantibus et laciniatim findentibus; conidiis exacte piriformibus, basim versus 2-septatis et pallidioribus, loculo superiore maximo, fuligineo; basidiis conidio paullo brevioribus bacillaribus. 4043

Hab. in ramis Betulæ albæ, Courtrai in Belgio. — *Massariæ loricatæ* st. conidicus.

4. **Stilbospora modonia** Sacc. *Melanconidis modoniæ* status conid. Fuck. Symb. myc. p. 189. — Acervulis majusculis, sub corticis epidermide nidulantibus, demum erumpentibus, olivaceo-fuscis; conidiis oblongo-ellipticis, rectis curvatisve, plerumque 6-septatis, fuscis, 50–58 ≃ 14. 4044

Hab. in ramis emortuis Castaneæ vescæ in Rhenogovia.

5. **Stilbospora angustata** Pers. Syn. Fung. p. 96, Sacc. Fungi it. t. 1103, *Stilbospora macrosperma* Fres. Beitr. tab. VII. f. 48–52. *Sporidesmium angustatum* (Pers.) Corda in Sturm. tab. 22. — Acervulis diu tectis, nigro-brunneis, leniter elevatis, convexis, sæpe confluentibus; conidiis oblongo-cylindraceis, rectis utrinque obtusis, olivaceo-fuligineis, 3-septatis, ad septa leniter constrictis et sæpe strato hyalino obvolutis, 35–45–50 ≃ 10–14; basidiis bacillaribus conidium subæquantibus; paraphysibus cylindraceis, apice subclavatis, 100–150 ≃ 1–2 immixtis. 4045

Hab. in ramis Carpini Betuli nec non, sec. auctores, Corni sanguineæ, Fagi in Italia bor., Gallia, Belgio, Germania. — Adest forma in cortice Eucalypti in Amer. bor. Forma carpinea sistit st. conidicum *Pseudovalsæ macrosporæ*.

6. **Stilbospora macrosperma** Pers. Syn. p. 96, et Disp. fung. p. 14, t. III. f. 13. *Sporidesmium macrospermum* Corda in Sturm. t. 21. — Acervulis subcutaneis, atris, dein prominulis et erumpentibus; conidiis oblongo-ellipsoideis, 4-septatis, vix constrictis, pallide fuligineis. 4046

Hab. in ramis corticatis Quercus etc. in Germania et Britannia, in cortice Alni glutinosæ, Coimbra in Lusitania. — *Stilbospora macrosperma* Fresen., Rabenh. F. Eur., Thüm. et Wint. Exs. ad *Stilb. angustatam* referenda est; hinc dubium est, an revera ab hac distinguenda sit, etsi Corda l. c. pinxerit conidia multo crassiora et breviora in *Stilb. macrosperma* quam in *Stilb. angustata*. Differentia ab ætate forte pendet.

7. **Stilbospora quadriseptata** Schw. Syn. Am. bor. n. 2083. — Acervulis primum sub epidermide inde varioloso-bullata effusis, sporodochio spurio nigro centrali, demum prominentibus et circum circa sub epidermide et in ea spargentibus magnam copiam conidiorum subconglutinatorum; conidiis oblongis, fuligineis, semipellucidis, elongato-quadriseptatis aut quasi ex quatuor globulis internis conformatis. 4047

Hab. in epidermide majorum ramorum et trunci Platani occidentalis cæsi, nec jam corrupti, Bethlehem Amer. bor.

8. **Stilbospora multiseptata** Schw. Syn. Amer. bor. n. 2984. — Acervulis in cortice satis effusis, parum elevatis; sporodochio perithecio (?), cortice ime ad lignum usque immerso, subsphæriæmorpho et quasi evacuato, post effluxum conidiorum; conidiis magnis lineari-subulatis, utrinque incurvis acuminatis, multiseptatis et lignum aut corticem inquinantibus, ceterum aterrimis, subpellucidis. 4048

Hab. in ramis querneis prope Nazareth Amer. bor.

9. **Stilbospora Staphyleæ** Schw. Syn. Amer. bor. n. 2985. — Acervulis minoribus, rotundatis, nidulantibus sub epidermide elevata; demum rima dehiscentibus; conidiis cano-fuscis, subpellucidis, elongato-ellipticis, utrinque subacutis, multiseptatis; acervulis ceterum gregarie sparsis, numerosis. 4049

Hab. frequens in junioribus ramulis Staphyleæ, Bethlehem (Schweinitz) et Staphyleæ trifoliæ, Helderberg Mount. (Peck).

10. **Stilbospora pinicola** B. et C. North Amer. Fungi n. 478. — Acervulis oblongis erumpentibus; conidiis oblongis, utrinque obtusis triseptatis, articulis uninucleatis, leviter constrictis, 20 × 5-6. 4050

Hab. in dorso foliorum Pini in Amer. bor.

11. **Stilbospora Cacti** Lév. Ann. Sc. nat. 1845, p. 66. — Acervulis (peritheciis Lév.) subglobosis epidermide rupta cinctis; conidiis elliptico-elongatis, 3-septatis, dein effluentibus et maculas minutas atras formantibus. 4051

Hab. ad caules Cacti peruviani in Peruvia.

12. **Stilbospora fumosa** Fée Ess. Crypt. ecorc. pag. 24. — Conidiis (thecis Fée) rotundo-deformibus, aterrimis dein effluentibus et matricem late fœdantibus. 4052

Hab. in epidermide Cinchonæ floribundæ in officinis servatæ. — « Quum de septis nulla mentio fiat, et conidia subrotunda dicantur an potius *Melanconii* species? ».

13. **Stilbospora utriculosa** Schwabe Fl. Anhalt. II. p. 353, t. VI. f. 17. — Acervulis convexis v. planiusculis, plerumque oblongis; conidiis magnis, obovatis, 3-septatis, loculo supremo maximo, hyalino-obvolutis. 4053

Hab. in ramis emortuis Pini Strobi, Anhalt Germaniæ.

14. **Stilbospora militaris** Curr. Microsc. Journ. IV. t. 11, f. 4-9. — Teste Tul. Carp. II. p. 242-243 est fungus fictitius ex *Asterosporio* et *Thyrsidio* ortus. 4054

CORYNEUM Nees Syst. d. Pilze p. 34, Sacc. Mich. II. p. 11. (Etym. *coryne* clava, ob formam conidiorum frequentem) *Seimatosporium* Corda. — Acervuli disciformes v. pulvinati, subcutaneo-erumpentes, atri, compacti. Conidia oblonga v. fusoidea, 2-pluriseptata, fuliginea, numquam cirrose expulsa; basidia bacillaria longitudine varia.

I. *Species cauli-ramicolæ.*

1. **Coryneum microstictoides** Sacc. et Penz. in Sacc. Mich. II. p. 633. 4055
— Acervulis gregariis, oblongis, 1 mill. long. $^1/_2$ mill. cr., epidermide demum fissa velatis, atris, vix tumidulis; conidiis ovato-oblongis, 14 ≃ 5-6, utrinque obtusiusculis, 14 ≃ 5-6, 3-septatis, ad septa vix constrictis, totis fuligineis; basidiis bacillaribus, hyalinis, fasciculatis, 18-20 ≃ 1,5-2.

Hab. in caulibus gelu necatis Pæoniarum cultarum Lyon Galliæ (Therry). — A *Cor. microsticto* conidiis totis concoloribus præcipue distinguendum.

2. **Coryneum gummiparum** Oud. in Hedw. 1883, p. 131. — Acervu- 4056
lis minutissimis, punctiformibus, atris, gregarie crescentibus; conidiis e pulvinulo parenchymatoso fuscescente oriundis, breviuscule stipitatis, oblongis vel oblongo-obovatis, separatim examinatis dilute fuligineo-olivascentibus, 3-septatis, ad septa minime constrictis, 14 ≃ 6, loculis omnibus æqualibus et æquicoloratis; basidiis hyalinis, conidio (ut videtur) brevioribus, vulgo non rite distinguendis; paraphysibus nullis.

Hab. in rimis gummosis ramorum Acaciæ cujusdam gummiferæ ex Senegal et Arabia.

3. **Coryneum Corni-albæ** (Roum.) Sacc. in Mich. II. p. 355. F. it. t. 4057
1113. *Sphæria Corni-albæ* Roum. F. Gall. n. 571. — Acervulis gregariis, innato-erumpentibus, pulvinatis, $^1/_2$-1 mill. diam., denique epidermide rupta cinctis; conidiis oblongis; utrinque acutiusculis, 20-22 ≃ 9, triseptatis, non constrictis, totis fuligineis, basidiis filiformibus 18-20 ≃ 1 suffultis.

Hab. in ramis Corni albæ emortuis, Perpignan in Gallia (Roumeguère).

4. **Coryneum Beyerinckii** Oud. in Hedw. 1883, p. 115. — Acervulis 4058
minutissimis, punctiformibus, atris, gregarie crescentibus; conidiis e pulvinulo parenchymatoso fuscescente oriundis, stipitatis, oblongo-obovatis, dilute olivascentibus, vulgo 3-septatis, ad altitudinem septorum minime constrictis, loculis omnibus æqualibus aut exti-

mis paullo minoribus, subinde colore expertibus; basidiis cylindraceis aut inferne paullulum incrassatis, colore expertibus, hyalinis, conidia longitudine fere æquantibus.

Hab. in trunco ramisque Amygdalearum in Neerlandia fluxum gummosum provocans (Beyerinck).

5. **Coryneum microstictum** B. et Br. Not. of Br. Fung. n. 451, *Sporocadus rosicola* Rabenh. sec. Fuck., *Seimatosporium Rosæ* Corda in Sturm. tab. 40 (mala). — Tectum; stromate obsoleto; conidiis subpiriformibus v. oblongis, 15–17 ≃ 5–6,5, apice obtusiusculis, 4-locularibus, loculo infimo subhyalino, ceteris melleis; basidiis bacillaribus, 20–25 ≃ 1,5, hyalinis. 4059

Hab. in ramis languidis v. emortuis Rosæ, Rubi, Kerriæ, Cratægi, Oxyacanthæ, Arbuti, Vitis in Italia, Gallia, Britannia, Germania, Austria, Amer. bor., Algeria. — β. **laurinum**. Differt conidiis brevioribus, nempe 12–15 ≃ 5–6, fuligineis, loculo infimo pallidiore, stipite breviore, nempe 15 ≃ 1½, hyalino; acervulis hypophyllis, minutis, dein erumpentibus. In foliis Lauri nobilis in Gallia (Brunaud).

6. **Coryneum Rubi** (Corda) Sacc. *Didymosporium Rubi* Corda Icon. fung. I. p. 7, fig. 107. — Acervulis elongatis, epidermide tectis, dein erumpentibus, atris, pulveraceis; conidiis ovoideis 2-septatis, non constrictis fuscis; hypostromate spurio corneo, atro. 4060

Hab. in ramulis Rubi prope Reichenberg Bohemiæ.

7. **Coryneum impressum** Pr. F. Hoyersw. n. 166. — Acervulis erumpentibus convexis, medio depressis, atris; stromate celluloso albo; basidiis pedicelliformibus albis, simplicibus vel ramosis, septatis; conidiis luteo-fuscis, oblongis, diaphanis, magnis. 4061

Hab. in cortice Calycanthi floridi, Hoyerswerda.

8. **Coryneum Negundinis** B. et C. North Amer. Fungi n. 480. — Acervulis minutissimis; conidiis brevibus, biseptatis e pedicellis crassiusculis furcatis reticulatisque oriundis, latitudine sua duplo longioribus, pallidis, utrinque attenuatis. 4062

Hab. in ramis Aceris Negundinis in Carolina superiore Americæ borealis.

9. **Coryneum Tecomæ** Sacc. Myc. Ven. Spec. p. 190, t. XVII. f. 20. 21. — Acervulis planiusculis, subrotundis v. angulosis, ¼ mill. d., epidermide laciniatim rupta cinctis; conidiis fusiformibus 5-septatis, loculis extimis acuminatis, hyalinis, ceteris obscure ferrugineis, longe hyalino-stipitatis, 25 ≃ 10, (sine stipite). 4063

Hab. in ramulis Tecomæ radicantis, Padova in Italia bor.

— Affine *Coryneo microsticto* B. et Br. sed conidia 5-septata non 2-3-septata; habitus *Hendersoniæ*, sed perithecium genuinum nullum.

10. **Coryneum Vaccinii** Fuck. Symb. myc. App. II. p. 81. — Acervulis 4064
gregariis, minutissimis, primo epidermide tectis, demum liberis, hemisphæricis, atro-olivaceis; conidiis lanceolato-subclavatis, 3-septatis, flavis, longissime pedicellatis, 16 ≃ 4.

Hab. in ramulis siccis Vaccinii Myrtilli pr. Neuchâtel Helvetiæ (Morthier).

11. **Coryneum affine** Sacc. in Mich. II. p. 634. — Acervulis subcu- 4065
taneo-erumpentibus, globosis v. oblongis, aterrimis, gregariis; conidiis ellipsoideis, utrinque obtusiusculis, 20–22 ≃ 7, triseptatis, ad septa haud v. vix constrictis, fuligineis, loculis extimis hyalinis; basidiis filiformibus, hyalinis conidium duplum æquantibus.

Hab. in caulibus emortuis Rumicis, Rouen Galliæ (Malbranche). — Ab affini *C. microsticto* differt conidiis majoribus, utrinque hyalinis, etc.

12. **Coryneum macrospermum** B. et Br. Ann. N. H. n. 941, t. 15, 4066
f. 12. — Stromate minuto, pulvinato, celluloso; acervulis sparsis, subsuperficialibus; basidiis sursum furcatis; conidiis subcylindraceis, 4-5-septatis, articulis extimis hyalinis.

Hab. in palis Alni pr. Batheaston Angliæ. — *Didymosporium macrospermum* Corda rem diversam, monente quoque Fresenio, sistere videtur.

13. **Coryneum intermedium** Sacc. Mich. I. p. 91. Fungi ital. t. 81. — 4067
Acervulis primo epidermide tectis, dein erumpentibus, numquam elevatis, aterrimis, laxiusculis; conidiis e strato hymenico crassiusculo lutescente oriundis longe stipitatis, oblongo-fusoideis, 28–32 ≃ 10–11, 6-locularibus, loculis extimis minoribus, acutis, hyalinis, ceteris fuligineis; stipitibus fasciculatis, filiformibus, 70 ≃ 1¾, hyalinis.

Hab. in cortice Ulmi campestris, Vittorio; et in ramis corticatis Populi Tremulæ, Conegliano in Ital. bor. (Spegazzini). — Ob fabricam conidiorum *Coryneum Kunzei* Corda in memoriam revocat, a quo conidiis dimidio et ultra minoribus statim dignoscitur. A *Cor. Tecomæ* Sacc. stipitibus multo longioribus, acervulis compactioribus etc. recedit.

14. **Coryneum compactum** B. et Br. Ann. N. H. n. 449. — Acervu- 4068
lis minutis, initio epidermide tectis, dein nudis; stromate convexo; conidiis stipitatis late fusiformibus, leniter obtusis, 4-5-septatis, nucleatis; nucleis concatenatis.

Hab. in ramis emortuis Ulmi in Britannia, et Betulæ rubræ in Carolina Amer. bor.

15. **Coryneum pustulatum** Peck 33 Rep. St. Mus. p. 26, t. I. fig. 1-3. 4069
— Acervulis pustuliformibus, cortice immersis, epidermide elevata demum leniter fissa tectis; conidiis longis, subclavatis vel subfusiformibus, coloratis, 6-7-septatis, curvatis nucleatis, 62-75 ≃ 12-14; basidiis brevibus.

Hab. in ramis emortuis Quercus et Castaneæ, Sandlake in America boreali.

16. **Coryneum umbonatum** Nees Syst. d. Pilze p. 34, f. 31, Tul. Carpol. II. t. XV. f. 9, Sacc. F. it. t. 1109, *Steganosporium elevatum* Riess Bot. Zeit. 1853, tab. 3, fig. 24-27. — Acervulis erumpentibus, nigris, disciformibus, centro umbonatis; stromate cellulari, brunneo; conidiis late fusoideis, fuligineis, anguloso-nucleatis, 42-50 ≃ 16-18, 5-8-septatis, loculis extimis hyalinis; basidiis bacillaribus, subinde furcatis, hyalinis. 4070

Hab. in ramis dejectis Ulmi, Carpini, Quercus in Italia, Germania, Britannia. — Stat. conidicus *Pseudovalsæ umbonatæ*. — β. **Prunorum** Sacc. Reliq. Lib. Myc. IV. n. 179. Conidiis late fusoideis, 40-45 ≃ 16, 7-9-septatis, non constrictis, ochraceo-fuscis, vertice apiculato-subhyalinis. In ramis Prunorum in Arduennis.

17. **Coryneum pulvinatum** Kunze et Schm. Myk. Heft. I. t. II. f. 19, 4071
Bonord. Handb. t. 12, f. 240. — Acervulis rotundis, patellaribus, convexis, dein erumpentibus et peridermio cinctis, atris; conidiis fusoideo-oblongis, obtusis, 4-5-septatis, leniter constrictis, brunneis; basidiis cylindraceis, hyalinis suffultis, 75 μ. longis.

Hab. in ramulis dejectis Ulmi, Tiliæ, Aceris in Germania et Britannia, et in ramis Tiliæ americanæ in Amer. bor.

18. **Coryneum salicinum** (Corda) Sacc. *Didymosporium salicinum* 4072
Corda Icon. fung. I. p. 7. fig. 108. — Acervulis hypodermicis, atris, epidermide dein stellatim se rumpente denudatis; conidiis fuscis 10-12 μ. longis, 3-septatis, non constrictis; hypostromate irregulari spurio, corneo, atro.

Hab. in ramulis Salicum frigore necatis prope Reichenberg Bohemiæ.

19. **Coryneum maculicolum** Fuck. Symb. myc. p. 372. — Acervulis 4073
in macula expallescente, erumpentibus, epidermide 2-3-fissa circumdatis, oblongis, atris; conidiis longe pedicellatis, oblongis, triseptatis, flavis.

Hab. in ramis siccis adhuc pendulis Salicis auritæ in Rhenogovia.

20. **Coryneum Kunzei** Corda Ic. fung. IV. p. 46, t. 10, f. 131, Sacc. F. it. t. 1110, *C. disciforme* Nees, sec. Tul. et Kickx, forte partim tantum, nec Corda. — Acervulis disciformibus, erumpentibus, nigris: conidiis clavato-fusoideis, curvulis, 60–70 ≃ 12–14, 6-septatis, non constrictis, 7-guttulatis, olivaceo-fuscis, apice subobliquo obtusiusculo pallidioribus; basidiis filiformibus, subseptatis, 120 ≃ 3–4, hyalinis. 4074

Hab. in ramis corticatis Quercus, Fagi, Betulæ in Italia, Britannia, Gallia, Pensylvania in Amer. bor. — Stat. conid. *Pseudovalsæ longipedis*. — β. **Castaneæ** Sacc. Reliq. myc. Lib. IV. n. 180 (*Steganosporium Castaneæ* Lib. ined.): conidiis longe stipitatis fusoideis, deorsum tenuatis, sub-5-septatis, 50–52 ≃ 10–12, fuscis, vertice obtusiusculo subhyalino. In cortice Castaneæ in Arduennis.

21. **Coryneum disciforme** Kunze et Schm. Mykol. Hefte I. p. 76, t. II. f. 18, Oudem. Mat. Myc. Neerl. II. p. 27, t. IX. f. 13. — Acervulis disciformibus, applanatis; conidiis clavatis, deorsum attenuatis, apice obtusiusculis, 5–7-septatis, non constrictis, cuboideo-nucleatis, æqualiter fuligineis, 50–60 ≃ 14; basidiis filiformibus, conidium superantibus, continuis, paraphysibus intermixtis. 4075

Hab. in ramulis Tiliæ, Quercus et Betulæ (?) in Germania, Britannia, Hollandia et Lusitania. — A *C. Kunzei* sec. icon. Oudem. l. c. differre videtur conidiis obtusioribus æqualiter coloratis, paraphysibus et basidiis continuis. — Var. β. **ellipticum** B. et Br. Ann. N. H. n. 450: acervulis pulvinatis, transverse erumpentibus, majusculis, crassis, intus albidis; basidiis arcte fasciculatis; conidiis fusoideis, multiseptatis, leniter constrictis, loculis transverse 2-guttulatis. In truncis Betulæ in Britannia et America boreali.

22. **Coryneum Notarisianum** Sacc. *Coryneum disciforme* Corda Ic. fung. III. pag. 36, fig. 91, Tul. Carp. II. tab. XVI. fig. 1–8, nec Kunze et Schm. *Stilbospora affinis* De Not. Sfer. ital. t. 53, f. 7. — Acervulis erumpentibus discoideis, angulatis v. oblongis, atris, hypostromate celluloso-carnoso, fusco; conidiis subclavatis, luteo-fuscis, 45–50 μ. longis, 5–6-septatis; basidiis simplicibus v. furcatis conidio plerumque longioribus. 4076

Hab. in ramis dejectis Betulæ in Bohemia, Gallia et Italia, et Quercus in Lusitania. — Conidia, teste Corda, parce subinde longitrorsum divisa, quæ ita non pinguntur a cl. Tulasneo et De Notaris. — Status conid. sine dubio *Pseudovalsæ lanciformis*.

23. **Coryneum fusarioides** Sacc. Mich. II. p. 120, F. it. t. 1112. — Acer- 4077
vulis gregariis erumpentibus, dein pulvinatis varieque tuberculatis, aterrimis, 100-200 μ. diam.; conidiis fusoideo-falcatis, 45 ≃ 6, utrinque acutis, 7-8-septatis, 7-guttulatis, fumosis; loculis extimis hyalinis; basidiis filiformibus, subcoalitis, fuligineis.

Hab. in cortice Populi fastigiatæ pr. Rouen Galliæ (Letendre). — Videretur forma malanconiea *Henders. fusarioidis* Sacc.

24. **Coryneum decipiens** B. et C. North Amer. Fungi n. 479. — Acer- 4078
vulis pustuliformibus, minutis, erumpentibus; conidiis oblongis utrinque obtusis, triseptatis, longe pedicellatis, 15 ≃ 3.

Hab. in corticibus New-England in Amer. bor. — β. **Castaneæ** B. et C. l. c. conidiis deorsum attenuatis; pedicellis brevioribus.

25. **Coryneum oligosporum** Corda Icon. Fung. V. p. 81, t. IX. f. 73. 4079
— Erumpens, convexiusculum, impressum vel tortuosum, atro-fuscum; stromate aterrimo, duro; conidiis clavatis, luteo-fuscis, subsessilibus, 60 μ. longis, 6-10-septatis, non constrictis, fusco-brunneis; basidiis minutis, abbreviatis.

Hab. in ramis emortuis Coryli prope Prag Bohemiæ.

26. **Coryneum confluens** Nees jun. in Kunze Myk. Heft. II. p. 66. — 4080
Acervulis subrotundis, gregariis, mediotenus elevatis, ambitu pulverulentis, nigris; conidiis oblongis obtusis, obsolete 3-septatis, subcoloratis; basidiis tenerrimis.

Hab. ad ramos dejectos Alni rarius in Germania.

27. **Coryneum brachyurum** Link. Sp. p. Fungi II. p. 124. — Acer- 4081
vulis convexis, atris; conidiis ovoideis; basidiis crassiusculis brevibus; paraphysibus intermixtis.

Hab. ad ramos dejectos in agro berolinensi (Link.) — *C. umbonato* affine dicitur.

28. **Coryneum depressum** Kunze Myk. Heft. II. p. 75, t. II. f. 17. — 4082
Acervulis depressis, atris, epidermide cinctis; conidiis ovato-oblongis, 4-5-septatis, fuscis, apice rotundatis; basidiis filiformibus conidio brevioribus.

Hab. in ramis dejectis quercinis in agro berolinensi. — Affine dicitur *C. brachyuro.* Huc cl. Auerswald (Bot. Zeit. 1851, p. 180) dubitanter ducit suam *Placentariam depressam,* cui tamen tribuit conidia continua.

29. **Coryneum heterosporum** Pr. Fungi Hoyersw. n. 58. — Acervu- 4083
lis erumpentibus, convexis, impressis, atro-fuscis; stromate duro, fusco; conidiis fuscis, aggregatis, majoribus, clavatis, minoribus obovatis, sessilibus, cellulis subquadratis.

Hab. in ramis dejectis, Hoyerswerda.

30. **Coryneum Smilacis** Schw. Syn. Amer. bor. n. 3091. — Acer- 408
vulis sparsis tectis sub epidermide elevata, tantum poro aut rima centrali apertis; disco minuto, tum conspicuo; conidiis nigris v. fuligineis, pedicellatis, oblongis aut subcylindricis, septatis, demum effluentibus.

Hab. in epidermide Smilacis rotundifoliæ, Bethlehem Americæ borealis.

II. *Species foliicolæ.*

31. **Coryneum foliicolum** Fuck. Symb. myc. p. 372, Sacc. F. it. t. 1105. 408
— Maculis epiphyllis, ochraceis, vagis; acervulis punctiformibus, deplanatis, erumpentibus; conidiis ellipsoideo-oblongis, 17 ≃ 6-7, 3-septatis, ad septa leniter constrictis, olivaceis, loculo infimo subhyalino, stipitibus filiformibus, 15-20 ≃ 1¹/₁, hyalinis suffultis.

Hab. in foliis Quercus, Cratægi Oxyacanthæ in Germania; in foliis Rubi fruticosi, Conegliano in Ital. bor.; in foliis Rubi discoloris en la Roca del Riachuelo Reipubl. Argentinæ.

32. **Coryneum pestalozzioides** Sacc. Mich. I. p. 91, Fungi Ital. p. 82. 4086
— Acervulis minutis, maculas foliorum rufescentes degentibus, erumpentibus, minutis, aterrimis; conidiis ellipsoideis, 9 ≃ 5, 3-septatis; loculis 3 interioribus fuscis, extimis obtusiusculis, hyalinis; stipitibus persistentibus, filiformibus, 12 ≃ 1, hyalinis.

Hab. in foliis languidis Cratægi Oxyacanthæ in silva Montello Italiæ borealis. — A *Cor. foliicolo* Fuck. differt conidiis fere dimidio minoribus, brevius stipitatis etc. A *Sporodesmio epiphyllo* Lév. et *Hendersonia foliorum* Fuck. longius distat.

33. **Coryneum concolor** Penz. in Sacc. Mich. II. p. 452, F. it. t. 1189. 4087
— Acervulis in macula arida, fusco-cincta insidentibus, sparsis, minimis, punctiformibus, prorumpentibus; stromate depresso; basidiis brevibus, hyalinis, 10-12 ≃ 3-3,5; conidiis oblongo-ellipticis, utrinque rotundatis, triseptatis, ad septa modice constrictis, loculis omnibus concoloribus, brunneo-fuligineis, 10-11 ≃ 3,5-4,5.

Hab. in foliis vivis Citrorum in frigidariis, Strà, Cattajo in prov. patavina Italiæ bor.

34. **Coryneum Rhododendri** Schw. Syn. Amer. bor. n. 3090. — Acer- 4088
vulis minutis, sparsis, per epidermidem folii prorumpentibus, convexulis, atris, intus albescentibus; conidiis dispersis, demum nu-

diusculis, ovalibus aut piriformibus; pedicellis breviusculis, crassis, septatis.

Hab. passim in foliis Rhododendri maximi, Bethlehem Americæ borealis.

35. **Coryneum triseptatum** Peck 27 Rep. p. 102. — Maculis latis, 4089
brunneis vel cinereis; stromate obsoleto; acervulis sparsis, minutis, erumpentibus, nigris; conidiis oblongo-piriformibus, 15–18 μ. longis, initio hyalinis et biseptatis, dein 3-septatis; loculis extimis hyalinis, ceteris coloratis; basidiis conidio æquilongis et ab eo facile decedentibus.

Hab. in foliis vivis Rhododendri maximi, Forestburgh Amer. bor. — A *Coryneo Rhododendri* probe diversum videtur.

36. **Coryneum epiphyllum** Schw. Syn. Amer. bor. n. 3092. — Acer- 4090
vulis obliteratis, parvis, irregularibus, dense aggregatis, in pagina aversa; conidiis immersis, ovato-cylindricis, subfalcatis, septatis, fuscis; aqua infusa apparent pedicelli longiusculi, pellucidi, pluribus versus basim coalitis.

Hab. vulgare in foliis Castaneis, sparsim et nigrificans, Bethlehem Amer. bor.

37. **Coryneum effiguratum** Schw. Syn. Amer. bor. n. 3093. — Acer- 4091
vulis atris difformibus aut stellatim confluentibus, subeffusis, applanatis; conidiis piriformibus, multiseptatis, brevissime pedicellatis.

Hab. subtectum sub villositate paginæ aversæ foliorum Quercus macropodæ, Nazareth Amer. bor.

38. **Coryneum juniperinum** Ellis Torr. bot. Club. 1882, pag. 134. — 4092
Acervulis nigris, sphæriæformibus, sparsis vel aggregatis, velutinis; conidiis vermiformi-cylindraceis, 6-septatis, fusco-brunneis, 35–40 ≃ 6–8, basidiis brevibus, crassis suffultis.

Hab. in foliis vivis Juniperi communis, Decorah, Jowa, in America boreali.

39. **Coryneum dubium** Speg. Fungi Arg. pug. II. p. 26. — Acervulis 4093
sparsis, epiphyllis, conico-hemisphæricis, erumpentibus, atro-fuligineis, minutissimis, 70–80 μ. diam.; conidiis fusoideo-elongatis, triseptatis, ad septa vix constrictis, loculo supremo elongato-acutato, 40–45 ≃ 5–7, deorsum in pedicellum exilem, 20–25 ≃ 1–1,5. elongatis, dilute olivaceis.

Hab. in frondibus emortuis Marchantiæ speciei cujusdam prope S. Josè de Flores Reip. Argentinæ.

SCOLECOSPORIUM Lib. in Sacc. Mich. II. pag. 355 (Etym. *scolecos* anguis et *spora*). — Acervuli subcutaneo-erumpentes, pulvinati compacti, atri. Conidia fusoidea, fuliginea, pluriseptata, apice in rostrum curvulum pallidius attenuata, basidiis brevibus suffulta. — A. *Coryneo* differt conidiis hyalino-rostratis.

1. **Scolecosporium Fagi** Lib. in Sacc. Mich. II. p. 355, Fungi ital. t. 1091. *Coryneum macrosporum* Berk. Engl. Fl. V. pag. 355, *Sporidesmium vermiforme* Riess in Fres. Beitr. II. p. 51, t. VI. f. 56-58. — Acervulis pulvinatis, depressis, subcutaneo-erumpentibus, dein peridermio cinctis, atris, intus albidis magnitudine et forma variis; conidiis fusoideis, 100-190 ≃ 12-15, fuligineis, sursum incurvo-attenuatis seu rostratis, subhyalinis, 7-12-septatis guttulatisque, breve crassiuscule stipitatis, loculo infimo pallidiore. 4094

   Hab. in cortice fagineo, sociâ *Massariâ macrospermâ*, cujus est stat. conidioph., in Gallia, Germania, Italia, Britannia.

ASTEROSPORIUM Kunze in Flora 1819, p. 225 (Etym. *aster* et *spora*). — Acervuli pulvinati, erumpentes, atri. Conidia stellato-lobata, non concatenata, fusca, radiis seu lobis sursum attenuatis, pluriseptatis. Basidia bacillaria, longiuscula.

1. **Asterosporium Hoffmanni** Kunze in Flora 1819, I. pag. 225. Fres. Beitr. tab. 5, fig. 10-13, Sacc. F. it. tab. 1102. — Acervulis pustuliformibus, leniter prominulis, obtusis, sæpe inæqualibus, epidermide elevata, dein fissa tectis; stromate albo-luteo, floccoso; conidiis tri-quadri-radiatis, radiis conicis, 25 ≃ 16, triseptatis, fuligineis; basidiis bacillaribus, continuis, hyalinis, 35-45 ≃ 2. 4095

   Hab. in cortice Fagi, Betulæ, in Germania, Italia, Belgio, Gallia, Britannia, Carolina in Amer. bor. — Icon Fresenii l. c. forte conidia germinantia refert.

2. **Asterosporium betulinum** Peck 33. Rep. St. Mus. p. 26, t. I. f. 4-5. — Acervulis pustulatis, erumpentibus, disco nigro orbiculari; stromate filamentoso; conidiis tri-quadri-radiatis dilute coloratis, radiis oblongo-ovatis vel elongato-conicis, subacuminatis, basi leniter coarctatis, tri-quadri-septatis, 20-37 ≃ 8,7-12, basi leniter angustatis, loculis uninucleatis, terminali pallidiore; basidiis filiformibus, conidio longioribus. 4096

   Hab. in ramulis Betulæ luteæ, Quaker street Amer. bor.

SEIRIDIUM Nees Syst. d. Pilze p. 22 (Etym. *seira* catena). — Acervuli subcutaneo-erumpentes, atri. Conidia oblonga, 2-pluriseptata, fuliginea, isthmis tenuato-filiformibus interjectis, concatenata.

1. **Seiridium marginatum** Nees Syst. d. Pilze p. 22, fig. 19, Hazsl. Sph. Ros. p. 214, fig. 23-26, *Coryneum marginatum* Fr. S. M. III. p. 473. — Acervulis planis, nigris, erumpentibus, dein epidermide cinctis; conidiis catenulatis oblongis, 3-septatis, haud constrictis, loculis 2 mediis fuligineis, extimis conicis, hyalinis in isthmos filiformes, conidia connectentes, abeuntibus; conidiis demum liberis et utrinque longe 1-aristatis, 20 = 6, aristis 25-30 = 1,5-2; basidiis bacillaribus dense fasciculatis, conidium paullo superantibus. 4097

   Hab. in ramis corticatis Rosarum in Germania, Hungaria, Helvetia. — *Coryneum marginatum* Hazsl. l. c. h. e. *Seiridium marginatum* Fuck. ad *Pestalozziam* potius pertinet. Cfr.

2. **Seiridium lignicolum** (Corda) Sacc. *Phragmotrichum lignicolum* Corda Icon. II. p. 9, t. IX. f. 46. — Acervulis minutissimis, atris subimmersis; stromate granuloso, luteolo; basidiis ramosis, interstitiis seu isthmis filiformibus albis; conidiis ovato-oblongis, triseptatis, 18 μ. longis; cellulis mediis fuscis, magnis, guttulis farctis, extremis apiculiformibus, albidis, diaphanis, vacuis. 4098

   Hab. in ligno ramorum emortuorum Salicis prope Prag Bohemiæ.

3. **Seiridium Liquidambaris** B. et C. North Amer. Fungi n. 483. — Pustulis epidermide arcte inclusis, apice carneo; conidiorum articulis ellipticis, breviusculis; isthmis cylindricis. 4099

   Hab. in ramis Liquidambaris in Carolina infer.

4. **Seiridium Smilacis** Schw. Syn. Amer. bor. n. 3085. — Acervulis longissime confluentibus, tamen multo minoribus, nec tam incrassatis; conidiis cylindricis, atro-fuscis, obtusis; pedicellis longissimis contortis albis. 4100

   Hab. passim ex caulibus Smilacis caducæ et aliarum specierum erumpens, Bethlehem Amer. bor.

HYALOCERAS Dur. et Mont. Fl. Alg. p. 587 (Etym. *hyalos* vitrum et *ceras* cornu). — Acervuli convexi, erumpentes, minuti, atri. Conidia oblonga, 2-pluriseptata, fuliginea, apice basique incurvo-1-rostrata. Basidia bacillaria, hyalina. Est *Dochmolopha*, deficiente perithecio.

1. **Hyaloceras Notarisii** Dur. et Mont. Fl. Alg. p. 587, *Stilbospora ceratospora* De Not. Micr. it. dec. I. n. 10, fig. 10. Thüm. Pilze d. Œlb. p. 28. — Acervulis sine ordine dispositis, minutis, atris, erumpentibus, alte convexis, stromate mucoso; conidiis oblongis, 4101

14-15 ≃ 4-5, leniter curvatis, plerumque triseptatis ad septa non constrictis, fuligineo-fuscescentibus, utrinque corniculo setiformi, acuto, incurvo hyalino ornatis; basidiis bacillaribus conidio sesquilongioribus hyalinis.

Hab. in ramis siccis Oleæ europææ in Sardinia pr. Sassari.

PESTALOZZIA De Not. Micr. ital. Dec. II. n. IX (Etym. a medico et botanophilo italico Fort. Pestalozza). — Acervuli subcutanei, subinde demum erumpentes, disciformes v. pulvinati, atri. Conidia oblonga, 2-pluriseptata, colorata (saltem loculi medii), rarissime tota hyalina, apice hyalino-1-pluriciliata, basidiis filiformibus, hyalinis suffulta. — Genus speciebus forte plurimis duplicatis v. non satis distinctis obrutum, et ulterius inquirendum.

I. *Eu-Pestalozzia.*

Conidia, saltem ex parte, colorata, apice 2-pluri-aristata.

1. **Pestalozzia decolorata** Speg. F. Arg. Pug. I. p. 190. — Maculis 4102
orbicularibus, 2-5 mill. diam., arescentibus, determinatis, pallide melleis, areola angustissima, purpurascenti cinctis; acervulis punctiformibus, minutis, 80-90 μ. diam., subepidermicis, lenticularibus, atris; conidiis unicoloribus, dilute chlorino-fumosis, 25-30 ≃ 5, elongato-clavatis, 3-4-septatis, loculo supremo, obtuse rotundatis, tribus rostellis, 15-20 ≃ 0.7-0,8, hyalinis ornato, infimo subconico in pedicellum, 5-6 ≃ 0,5, brevem et filiformem desinente.

Hab. in foliis vivis Myrtaceæ cujusdam, in paludosis ultra el Riachuelo Reip. Argentinæ.

2. **Pestalozzia inquinans** C. et Harkn. in Grevillea. — Acervulis epi- 4103
phyllis, sparsis, immersis, demum fisso-erumpentibus et circa marginem ob conidia effusa inquinantibus; conidiis clavatis, triloculatibus, fuscis, utrinque hyalino-apiculatis, superne setis tribus ornatis, infra breviter pedicellatis, 20 ≃ 5, (sine setis).

Hab. in foliis emortuis Eucalypti in California.

3. **Pestalozzia disseminata** Thüm. Contr. Myc. Lus. n. 578. — Acer- 4104
vulis amphigenis sed plerumque epiphyllis, gregariis, numerosis, globoso-conicis, elevatis, primo tectis, demum liberis, aterrimis, sine macula et sine ordine dispositis; conidiis fusiformibus, plerumque rectis, utrinque cuspidatis, regularibus, quinqueseptatis, ad septa non vel vix visibiliter constrictis, vertice angustatis et ciliis tribus rectis, subulatis, hyalinis, 6 μ. longis ornatis, cellulis mediis dilu-

te griseo-fuscidulis, aliis hyalinis, basi in pedicellum brevissimum, caducum, hyalinum angustatis, 20–26 ≃ 6–10.

Hab. in foliis emortuis Eucalypti Globuli Labill. pr. Coimbra in Lusitania (Moller). — A *Pestalozzia Eucalypti* Thüm. dispositione peritheciorum et conidiorum magnitudine bene et certe distincta!

4. **Pestalozzia Eucalypti** Thüm. Contr. Myc. Lus. n. 579. — Acer- 4105
vulis epiphyllis, gregariis, submagnis, aterrimis, solitariis, non confluentibus, conico-emersis; conidiis fusoideis, quinquecellularibus, ad septa minime constrictulis, vertice basique angustatis acutatisve, basi in pedicellum 8 μ. longum, hyalinum rectum angustatis, cellulis mediis fusco-fuligineis, aliis parvulis, achrois, vertice ciliis tribus tenuibus 12 μ. longis ornatis, 16–18 ≃ 6.

Hab. ad folia arida subputrida vel etiam raro languida Eucalypti Globuli, Coimbra in Lusitania.

5. **Pestalozzia Eugeniæ** Thüm. Contr. Myc. Lus. n. 342. — Acervu- 4106
lis epiphyllis, sparsis, solitariis, sæpe concentrice dispositis, lenticularibus, aterrimis in macula arescendo albida vel dilute grisea, orbiculari vel sinuosa, late fusco-purpureo-cincta; conidiis cylindrico-ellipticis, utrinque acutatis, quinquecellularibus, ad septa constrictis, cellulis mediis cinerescentibus, extimis hyalinis, ciliis in vertice tribus, achrois, 8 μ. long. ornatis, rectis vel leniter arcuatis, 22–24 ≃ 6–8.

Hab. in foliis vivis Eugeniæ Micheliæ in hortis Coimbra in Lusitania (Moller).

6. **Pestalozzia Myricæ** Ell. et Mart. Amer. nat. Jan. 70. — Maculis 4107
irregularibus, castaneo-brunneis, 5–10 mill. diam.; acervulis innato-erumpentibus, epiphyllis, 75 μ. diam.; conidiis ovoideis atro-brunneis, biseptatis, 9–12 μ. longis; loculis extimis, hyalinis, arista bipartita; basidiis deorsum attenuatis, 12 ≃ 2.

Hab. in foliis viventibus Myricæ ceriferæ, New Florida in America boreali.

7. **Pestalozzia Genistæ** Cocc. et Mor. F. Bol. II. n. 182, fig. II. — 4108
Acervulis sparsis, tectis, demum erumpentibus, rotundis oblongisve, atris, longitudinaliter dehiscentibus; conidiis fusoideis, 2–3-septatis, 17–20 ≃ 3–4, fuscis; loculis 2 extimis hyalinis; stipite hyalino 16–20 μ. longo; rostellis terminalibus duobus, divaricatis, inæqualiter longis (breviore 10–12 μ. long., longiore 15–18 μ.).

Hab. in ramis Genistæ germanicæ, Pontecchio in Italia.

8. **Pestalozzia polychæta** C. et Harkn. in Grevillea. — Sparsa, tecta de- 4109

mum elevata et stellato-fissa; acervulis mediocribus; conidiis clavatis, trilocularibus, fuscis, utrinque hyalino-apiculatis, superne 4-5-ciliatis, 25 ≃ 8 (sine setis).

Hab. in ramis Sarothamni in California.

9. **Pestalozzia Acaciæ** Thüm. Contr. Mycol. Lusit. n. 576. — Acervulis hypophyllis, gregariis vel solitariis, pro ratione magnis, emersis, hemisphæricis, aterrimis in macula valde irregulari, sordide ochracea, late ferrugineo-marginata; conidiis rectis, raro leniter arcuatis, late fusoideis, quinqueseptatis, ad septa leniter constrictulis, utrinque angustato-acutatis, cellulis tribus mediis fuligineis, aliis achrois, breve et tenuiter hyalino-pedicellatis, vertice ciliis duobus vel tribus subrectis, hyalinis ornatis, 24 ≃ 9-10. 4110

Hab. in foliis vivis Acaciæ longifoliæ et Acaciæ salignæ Coimbra in Lusitania.

10. **Pestalozzia Siliquastri** Thüm. Contr. Myc. Lus. n. 577. — Acervulis epiphyllis, gregariis, submagnis, pustulæformibus, postremo elevatis; conidiis ejectis zona nigra circumdatis, nitido-atris, in macula irregulari, fusco-ferruginosa exarida et dilacerata; conidiis cylindrico-ellipticis, plerumque leniter arcuatulis, utrinque acutatis et basin in pedicellum hyalinum angustatis, vertice setis tribus achrois, curvatis ornatis, cellulis tribus mediis griseis vel dilute fusco-griseis, aliis hyalinis, 15-18 ≃ 6,5. 4111

Hab. ad folia viva Cercidis Siliquastri, Choupal prope Coimbra in Lusitania.

11. **Pestalozzia Rosæ** West. Not. IV. p. 21 Kickx Fl. cr. Fl. II. p. 79. — Acervulis minutis, albis, densiusculis, epidermide fissa cinctis; conidiis fusiformibus, 20-25 ≃ 10, 3-septatis, loculo superiori hyalino, ceteris pallide brunneis; aristis, 2-3, divergentibus, conidium æquantibus. 4112

Hab. in ramulis Rosarum in Belgio (Westendorp).

12. **Pestalozzia Lauro-Cerasi** West. Bull. Ac. Belg. II. Ser. t. XII. n. 7. — Acervulis hypophyllis, sparsis, nigris, immersis, leniter prominulis, epidermide dein fissa cinctis: conidiis brunneis, fusiformibus, apice truncatis, 2-septatis; loculis duobus superioribus majoribus et brunneis, inferiore minuto, hyalino, aristis 2 hyalinis, divergentibus. 4113

Hab. in foliis emortuis Pruni Lauro-cerasi in Belgio.

13. **Pestalozzia congesta** B. et Br. F. of Ceyl. n. 805. — Acervulis congestis, prominulis, 1-2 mill. diam., brunneis; conidiis oblongis, uniseptatis. 4114

Hab. in pagina inferiore foliorum Syzygii Jambolani, Peradeniya Ceylon. — «Si conidia vere 1-septata, an novi generis typus?».

14. **Pestalozzia longiseta** Speg. in Sacc. Mich. I. p. 478. F. ital. t. 1120. — Acervulis punctiformibus, lenticulari-subsphæroideis, primo tectis, dein erumpentibus, atris, 100–145 μ. diam., macula rufa nigro-cincta insidentibus; conidiis elliptico-fusoideis, utrinque acuminatis, 20 ≃ 8, 4-septatis, ad septa non vel vix constrictis, loculis tribus internis fuligineo-atris, quandoque 2 superioribus intensius coloratis, duobus autem extimis parvulis atque hyalinis, superiore tribus rostellis longissimis, 30–40 ≃ 1, ornato, inferiore pedicellum 5–15 ≃ 1 gerentibus. 4115

Hab. ad folia viva vel languida Rubi cæsii, Susegana in Italia boreali.

15. **Pestalozzia breviseta** Sacc. Mich. I. p. 92, Fungi ital. tab. 84. — Acervulis minutis, maculas foliorum cinerescentes gregarie occupantibus, erumpentibus, atris; conidiis oblongis v. breve fusoideis, 25–26 ≃ 7, 4-septatis, loculis 3 interioribus fuligineis, extimis acutis cum setis stipiteque hyalinis; setis terminalibus ternis, filiformibus, brevibus, 8–10 ≃ 1, stipite filiformi, brevissimo, 3 ≃ 1. 4116

Hab. in pagina inferiore foliorum Piri communis et Carpini Betuli, Selva Italiæ bor., rarius.

16. **Pestalozzia Photiniæ** Thüm. Contr. Funghi Litor. n. 320. — Acervulis epiphyllis, gregariis, primo epidermide velatis, demum liberatis, hemisphærico-lenticularibus, opaco-nigris in macula sordide fusco-ochracea, arescente, obscure fusco-cincta; conidiis elongato-ellipsoideis, quadriseptatis, pedicellatis, cellulis tribus inferioribus fuscis, cellula terminali hyalina, ad septa maxime constrictis, vertice ciliis tribus longis, curvis, filiformibus, hyalinis ornatis, 20–24 ≃ 7–8. 4117

Hab. in foliis vivis Photiniæ serrulatæ, Pola Istriæ.

17. **Pestalozzia stellata** B. et C. North Amer. Fungi n. 489. — Acervulis stellatis e macula alba oriundis; conidiis subdoliiformibus biseptatis, brevibus; basidiis sursum attenuatis, conidium subæquantibus. 4118

Hab. in foliis Ilicis opacæ, Quercus tinctoriæ, in Carolina Amer. bor. — In forma Quercus deest macula alba.

18. **Pestalozzia annulata** B. et C. North Amer. Fungi n. 490. — Acervulis punctiformibus e macula alba fusco-cincta oriundis; epidermide, centro excepto, tectis, nigro-annulatis; conidiis fusifor- 4119

mibus 2-3-septatis, 20 μ. longis, basidiis conidium æquantibus deorsum attenuatis.

Hab. in foliis Ilicis, Alabama Amer. bor.

19. **Pestalozzia Ilicis** West. Bull. Acad. Belg. II. ser. VII. n. 5 cum icone. — Acervulis epi- vel hypophyllis, nigris, sparsis, immersis, distincte prominulis, epidermidem dein fissam elevantibus; conidiis fusiformibus, 3-septatis, loculis extimis hyalinis, intermediis brunneis; aristis 2-3, hyalinis, divergentibus conidio longioribus. 4120

Hab. in foliis Ilicis Aquifolii in Belgio (A. P. Dumont).

20. **Pestalozzia Calabæ** West. 5 Not. Hypox. Belg. p. 13. — Acervulis hypophyllis, sparsis, nigris, immersis epidermide pallida dein pertusa tectis; conidiis piriformibus, elongatis, 30 ≃ 10, 3-septatis, loculis superioribus brunneis, infero hyalino; setulis duabus, hyalinis, circ. 10 μ. longis. 4121

Hab. in foliis Calophylli Calabæ in calidario culti, Bruxelles in Belgio.

21. **Pestalozzia rostrata** Zab. in Peck Rep. St. Mus. New York. *Pestalozziæ insidenti* habitu similis; conidiis angustioribus 25 μ. long., arista basilari carentibus, loculis mediis quatuor coloratis. 4122

Hab. in cortice Loniceræ et Mali, New Baltimore Amer. bor. (Zabriskie). — *Pestalozziæ concentricæ* fructificatione peraffinis, sed habitu et habitatione diversa.

22. **Pestalozzia Evonymi** Vize in Grevillea (ex errore sub nom. *P. Planimi*). — Acervulis atris, emergentibus, epidermidem radiato-findentibus; conidiis fusiformibus, 3-4-septatis, quadri-aristatis, atro-brunneis, 50-60 ≃ 10; pedicellis longe attenuatis, hyalinis; aristis 45-55 μ. longis. 4123

Hab. in ramis et foliis emortuis Evonymi in California (Harkness). — «Stirpem nullam sub *Planimi* nomine inveni, hinc (cum matrix sit *Evonymus*) *Evonymi* pro *Planimi* legendum censeo».

23. **Pestalozzia neglecta** Thüm. Contr. Myc. Lusit. n. 343. — Acervulis epiphyllis, numerosis, parvis, subglobulosis, liberis, atris, gregariis; conidiis fusiformibus, brevipedicellatis, utrinque angustato-acutatulis, quinque-cellularibus, cellulis mediis tribus fuscis, magninucleatis, cellulis extremis hyalinis, vertice cum ciliis tribus achrois, brevibus, curvatis, ornatis, 25 ≃ 6. 4124

Hab. in foliis emortuis Evonymi japonici, Coimbra in Lusitania.

24. **Pestalozzia brevipes** Cooke in Grevillea. — Acervulis sparsis, 4125

minutis, tectis, apice perforatis; conidiis subsessilibus, ellipticis, biseptatis, pallide fuscis, 3–4-aristatis, 18 ≃ 7,5.

Hab. in petiolis Araliæ spinosæ, Gainesville, Florida.

25. **Pestalozzia microspora** Speg. Fungi Arg. Pug. II. p. 37. — Acer- 4126
vulis amphigenis, laxe gregariis, conico-hemisphæricis, atris, erumpentibus, $^1/_4$–$^1/_3$ mill. diam.; conidiis elliptico-fusoideis, 18–20 ≃ 5–6, 4-septatis, loculis tribus interioribus fuligineis, duobus extimis hyalinis, apice 3–5 setulis hyalinis, 10–15 ≃ $^1/_2$ ornatis, deorsum pedicello parvulo 5 ≃ 1 suffultis.

Hab. in foliis emortuis dejectis Hederæ Helicis in horto del Collegio Argentino, Buenos Aires Amer. merid. — An varietas *P. funereæ* Desm.?

26. **Pestalozzia Thümenii** Speg. in Thüm. Pilze des Weinstockes p. 4127
14. — Acervulis oblongo-depressis, primo epidermidem tumefacientibus, dein longitudinaliter erumpentibus, 300–350 μ. longis, 60–90 μ. crassis; conidiis cuneiformibus, deorsum attenuatis, ex hyphis repentibus, fuligineis, septulatis, 3–4 μ. crassis oriundis, quinquelocularibus, dilute olivaceis; loculis duobus extimis vix pallidioribus, omnibus plus v. minus guttulatis, 35 ≃ 6, pedicello versiformi ac varia longitudine, 5–10 ≃ 2–2,5; loculo supremo inæquilaterali cymbiformi, duobus rostellis crassiusculis, hyalinis, 15 ≃ 1,3 donato, uno e vertice, altero e latere orientibus.

Hab. in baccis maturis Vitis viniferæ pr. Conegliano in Italia boreali (Spegazzini).

27. **Pestalozzia uvicola** Speg. in Thüm. Pilze des Weinstockes p. 13. 4128
— Acervulis e globoso lenticularibus, quandoque conoideis, atris, subepidermicis, erumpentibus et epidermide lacerata circum circa parum dealbata cinctis, 300–400 μ. diam.; conidiis fusiformibus, 5-locularibus; loculis tribus mediis dilute olivaceo-fuscis, quandoque guttulatis, duobus extimis hyalinis, 35 ≃ 8–10, inferiore basidium conidii longitudinem subæquans gerente, 25–30 ≃ 1, superiore tribus rostellis vel ciliis 8–10 ≃ 1 donato.

Hab. in baccis maturis Vitis viniferæ, Conegliano in Italia boreali.

28. **Pestalozzia pezizoides** De Not. Micr. ital. Dec. III. p. 28, f. IX. Sacc. 4129
Myc. ven. Spec. p. 199, t. XVII. f. 28. — Acervulis gregariis v. sparsis, innato-erumpentibus, disciformibus, dein scutellato-pezizoideis, atris, subinde confluentibus; conidiis fusoideis, 5-locularibus; loculis interioribus fuscis, extimis hyalinis, 33–40 ≃ 8–9, stipite prælongo, 50–60 ≃ $1^1/_2$; rostellis, 5–7 patentibus, brevibus, raro furcatis.

Hab. in sarmentis dejectis Vitis viniferæ et ripariæ in Italia, Gallia, Amer. bor.; in lignis putrescentibus Juglandis, Lyon in Gallia.

29. **Pestalozzia Fuchsiæ** Thüm. Contr. Myc. Lus. n. 344. — Acer- 4130
vulis vel cæspitibus sparsis, minutis, dilute fuscis, globulosis, epiphyllis in macula plus minusve orbiculari, arescendo fusco-ochracea, obsolete concentrice zonata, anguste purpureo-cincta; conidiis numerosis, late fusiformibus, utrinque acutatis, quinquecellularibus, cellulis extremis hyalinis, ceteris cinereis, ad septa leniter constrictis, 20-21 = 7, vertice ciliis tribus achrois, subarcuatis, 6 μ. long.

Hab. ad folia viva Fuchsiæ coccineæ, Coimbra in horto botanico (Moller).

30. **Pestalozzia Osyridis** Thüm. Contr. F. Litor. n. 318. — Acervu- 4131
lis gregariis, minutis, epidermide primo tectis, postremo poro pertusis, hemisphæricis, opaco-nigris; conidiis elongato-fusoideis, rectis vel sæpe parum curvis, 22–28 = 7, cellulis mediis tribus fuscis, aliis hyalinis, utrinque acutissimis, vertice ciliis duobus vel tribus hyalinis, curvis, brevibus ornatis.

Hab. in ramulis tenuibus emortuis Osyridis albæ, Pola in Istria.

31. **Pestalozzia mangalorica** Thüm. F. Exot. n. XVI, in Rev. Myc. 4132
— Acervulis epiphyllis, punctiformi-applanatis, sparsis, emersis, minimis, nigris in macula irregulari-orbiculari, arescendo albicante, subtus ferruginea; conidiis orculæformibus, 5-septatis, utrinque loculo acuto hyalino, angustato ad septa non constrictis, vertice pilis tribus hyalinis ornatis, basi longipedicellatis, 15 = 7 (parte colorata).

Hab. in foliis vivis Brideliæ scandentis, Mangalore terræ Canaræ Ind. or. (Dr. Keck).

32. **Pestalozzia Oxyanthi** Thüm. Contr. Myc. Lusit. n. 574. — Acer- 4133
vulis amphigenis, dense gregariis, hemisphæricis vel applanatis, aterrimis, pulveraceis, subinquinantibus, sine macula; conidiis fusiformibus, rectis vel paullulum arcuatis, quinqueseptatis, utrinque acutatis, cellulis tribus mediis fumoso-griseis, aliis hyalinis, ad septa non constrictis, vertice ciliis duobus vel tribus brevibus caducis ornatis, 15–18 = 5,5–6,5, basi in pedicellum brevem arcuatum achroum angustatis.

Hab. ad folia emortua Oxyanthi pubescentis, Coimbra Lusitaniæ in calidariis horti botanici (Moller).

33. **Pestalozzia versicolor** Speg. in Sacc. Mich. I. p. 479. — Acer- 4134

vulis globoso-lenticularibus, primo subepidermicis, dein erumpentibus et circum circa ex conidiis exsilientibus matricem atro-inquinantibus; conidiis fusoideis, 4-septatis, 30 ≃ 10, loculis 2 extimis hyalinis, 2 internis superioribus atro-olivaceis, tertio inferiore amœne flavo-virescente, 3-guttulatis; loculo supremo conoideo, 3–4 rostella, 25–30 ≃ 1, gerente, infimo inflatulo quandoque 1-guttulato in pedicellum, 5–8 ≃ 1, desinente.

Hab. ad folia dejecta putrescentia Nerii Oleandri, Conegliano in Ital. bor. — β. **Americana** Speg. Pug. Arg. IV. n. 310: acervulis elongatis, hysteriatim erumpentibus, 0,5–1,5 ≃ 0,2–0,3 mill., atris; conidiis obovato-fusoideis, 40–45 ≃ 10, 4-septatis, loculis duobus extimis minutis, hyalinis, 2 internis superioribus intense olivaceis, tertio inferiore fulvo-olivascente, eguttulatis; loculo supremo 3–4 rostellis 30–35 ≃ 1 ornato, infimo inflatulo pedicello parvo 5–8 ≃ 1 suffulto. In culmis Scirpi palustris in Argentina.

34. **Pestalozzia funerea** Desm. in Ann. Scienc. nat. XIX. 1843, pag. 4135
235, F. Ital. t. 1115. — Acervulis sparsis, punctiformibus, aterrimis, epidermide tectis, demum prorumpentibus; stromate depresso, albido; conidiis oblongo-fusoideis, 5-locularibus, ad septa paullum constrictis, loculis 3 interioribus fuscis, 2 extimis, conoideis hyalinis, 22–32 ≃ 6–8, apice rostellis 2–5 patenti-recurvis, hyalinis 10–15 ≃ 0,7–1 ornatis; basidiis brevibus 5–9 ≃ 1–1,5.

Hab. in foliis ramulisque emortuis Thujæ, Cupressi, Cryptomeriæ, Araucariæ, Taxi, Taxodii, Sequojæ, Juniperi, Pinorum, Podocarpi (*P. Cesatii* Rabenh. F. E. n. 1932), nec non, sec. auctores, Citrorum, Smilacis, Eucalypti etc. in Gallia, Germania, Britannia, Italia, Austria, Belgio, Amer. bor. Sec. cl. Spegazzini in Mich. I. p. 478, sequentes speciei formæ venetæ distingui merentur, quæ forte a quibusdam ut species propriæ sumptæ sunt. — α. **typica**: conidiis 4-septatis; loculis tribus interioribus atro-olivaceis, 30–35 ≃ 7–8; rostell. 3, 15 ≃ 1; stip. 5–10 ≃ 1. In foliis vivis vel emortuis Pteridis aquilinæ, Photiniæ serrulatæ, Eucalypti Steweniani, Rubi fruticosi, Evonymi chinensis, Thujæ et Cupressi etc. — β. **crassipes**: conidiis oblongo-fusoideis, 4-septatis; 3 loculis internis atro-olivaceis, 20–30 ≃ 7; rost. 3, 10–12 ≃ 1; stip. 5–10 ≃ 3–3½. In ramulis emortuis Loniceræ Caprifolii, Conegliano. — γ. **multiseta**: conidiis elliptico-elongatis, utrinque acutis; 3 loculis internis atro-olivaceis, 25–30 ≃ 9–10; rost. 5–10, 7–10 ≃ 1; stip. 5–7 ≃ 1. In foliis dejectis Iridis Germanicæ, Conegliano Ital. bor.,

Rhododendri arborei in Gallia. — δ. **discolor**: conidiis oblongo-fusoideis, 4-septatis; 3 loculis internis olivaceis, loculo medio intensius colorato, 25-30 ≃ 7-8; rost. 4-5, 15-20 ≃ 1; stip. 8-10 ≃ 1. In foliis emortuis Buxi sempervirentis et Scrophulariæ caninæ, Tarzo prope Conegliano. — Quibus addo: ε. **punctiformis** Sacc. Mich. II. p. 284: acervulis minutissimis, nigris, amphigenis; conidiis normalibus, 25 ≃ 6-7, breve 3-aristatis breveque stipitellatis. In foliis emortuis Fagi silvaticæ in horto patavino. Ab affini *P. Guepini* basidiis brevibus tantum forte differt, et dubium est, auctores multos utramque sæpe confudisse.

35. **Pestalozzia cupressina** Niessl. Hedwig. 1883, p. 188. — Acer- 4136
vulis disseminatis, planiusculis, orbicularibus, peridermio lacerato cinctis, atris; conidiis oblongis vel subclavatis, rectis, biseptatis, loculis nucleatis, longe pedicellatis, 18-21 ≃ 8-9 (sine pedicello), atrofuscis, 4-6-rostellatis; rostellis rectis, divergentibus.

Hab. in ramulis emortuis Cupressi glaucæ, Coimbra in Lusitania.

36. **Pestalozzia fœdans** Sacc. et Ell. Mich. II. p. 375. — Acervulis 4137
densissime gregariis, innato-erumpentibus, pulvinatis, atris; conidiis fusoideis, 5-locularibus, ad septa non constrictis, 22 ≃ 5,5-6,5; loculis 3 interioribus fuligineis, guttulatis, extimis hyalinis, acutis; setulis apicalibus ternis 15-17 ≃ 1; stipite 5-8 ≃ 1.

Hab. in cortice Thujæ, Newfield N. J. Am. bor. (Ellis). — A *Pest. funerea,* cui affinis, præsertim conidiis angustioribus differt.

37. **Pestalozzia Cryptomeriæ** Cooke in Grev. XII. p. 24. — Acer- 4138
vulis foliicolis sparsis, tenuibus, subprominulis, convexis; conidiis lanceolatis, longe stipitatis, 3-locularibus, fuscis, utrinque hyalino-apiculatis, 12 ≃ 3,5, triciliatis.

Hab. in foliis Cryptomeriæ in Carolina austr. (Ravenel). — A *P. funerea* rite diversa.

38. **Pestalozzia conigena** Lév. in Ann. Sc. nat. 1846, V. p. 285. — 4139
Acervulis gregariis innatis globosis, intus nigris, epidermide lacerata cinctis; conidiis fusoideo-elongatis in stipitem attenuatis, 4-septatis, leniter constrictis; loculis 3 mediis fuscis, terminalibus, hyalinis, 20-24 ≃ 6-7,5; aristis apicalibus, 3-4 pellucidis.

Hab. in strobilis Thujæ occidentalis, Pini silvestris, P. rigidæ in Gallia, Sibiria, Belgio, Germania, Austria.

39. **Pestalozzia strobilicola** Speg. Mich. I. p. 479. *P. Stevensonii* 4140
Peck (teste ipso). — Acervulis primo lenticularibus tectis, dein conoideis, erumpentibus, $^1/_4$-$^1/_3$ mill. diam., atris gregariis, rarius

sparsis; conidiis elliptico-fusoideis, utrinque acuminatis, 3-septatis, 25 ≃ 9; loculis 2 internis atro-fuligineis, 2 extimis autem hyalinis, superiore 3-4 rostellis, 22-30 ≃ 1 ornato, inferiore pedicellum, 5-10 ≃ 1, gerente.

Hab. ad strobilos putridos Pini silvestris etc., Susegana Ital. bor. et in Amer. bor.

40. **Pestalozzia insidens** Zab. in Peck. Rep. on the St. Mus. New York. — Acervulis.....; conidiis 5-septatis; loculis 4 centralibus coloratis, 28-37 μ. longis, aristis longis apice coronatis. 4141

Hab. in cortice Ulmi, New Baltimore (Zabriskie), Greene County (Peck).

41. **Pestalozzia Mori** (Cast.) Mont. Cent. VI. n. 30 in Ann. 3, XX. p. 44. Syll. Crypt. n. 934, *Sphæria Mori* Cast. Mars. p. 175. — Acervulis gregariis, hemisphærico-conicis, subdimidiatis, innato-erumpentibus, cuticula canescente primo tectis, atris opacis, tandem elabentibus; conidiis fusiformibus quadriseptatis, 20 μ. long.; loculis 3 mediis coloratis, extimis hyalinis, altero fine bicornibus. 4142

Hab. in cortice Mori prope Marseille Galliæ.

42. **Pestalozzia stictica** B. et C. North Amer. Fungi n. 485. — Acervulis minutissimis; conidiis subdoliiformibus, biseptatis, parte colorata 15 ≃ 15, addito utrinque loculo minuto hyalino supero aristas infero basidium breve gerente. 4143

Hab. in foliis Platani occidentalis, Tiliæ, Santee River Amer. bor.

43. **Pestalozzia hysteriiformis** B. et C. North Amer. Fungi n. 487. — Acervulis minutis e macula arida decolorata concentrice zonata oriundis; conidiis breviter fusiformibus, biseptatis; pedicellis hyalinis elongatis. 4144

Hab. in foliis Quercus nigræ, Aiken in Carolina America boreali.

44. **Pestalozzia Castagnei** Desm. XIII. Not. p. 64, *Robillarda glandicola* Cast. Mars. p. 205. — Acervulis nigris vel cinereis, epidermide fissa tectis; conidiis fusiformibus, apice obtusis, 4-septatis, 22-25 μ. longis; loculis intermediis 3 semiopacis, terminalibus hyalinis, aristis 3 divergentibus, basidia subæquantibus; basidiis conidio dimidio brevioribus. 4145

Hab. in glandibus quercinis in Belgio et Gallia. — A *P. Guepini* differt conidiis longioribus et crassioribus aristisque multo brevioribus; a *P. funerea* conidiis angustioribus et loculis fuligineis ternis nec quaternis.

45. **Pestalozzia Guepini** Desm. in Ann. Sc. nat. 1840, XIII. p. 182, tab. 4, fig. 1-3. — Acervulis minutis, punctiformibus, convexulis, nigris, tectis dein epidermide fissa erumpentibus; conidiis fusiformibus, 20 μ. longis, 3-4-septatis; loculis intermediis semiopacis, terminalibus conoideis hyalinis, aristis 3-4, hyalinis, divergentibus, basidio paullo longioribus; basidiis hyalinis conidium æquantibus. 4146

Hab. in foliis Camelliæ japonicæ, Camelliæ reticulatæ, Rhododendri maximi, Citri, Amygdali, Smilacis, Magnoliæ, Lagerstrœmiæ in Italia, Belgio, Anglia, Austria, America boreali. — Typus in Camellia occurrit; an formæ in ceteris matricibus indicatæ eædem sint, forte dubitandum.

46. **Pestalozzia lignicola** Cooke Handb. n. 1403, p. 472. — Acervulis (peritheciis?) semiimmersis, lateraliter compressis, nigris vertice ob pressionem lateralem elongato; conidiis 3-septatis; loculis 2 interioribus brunneis, 2 extimis hyalinis; rostellis 2-4 hyalinis simplicibus; basidiis longissimis. 4147

Hab. in fragmentis ligneis putridis in Britannia, in lignis pineis, Acaciæ, Salicis, Rosæ in Italia, Gallia, Argentina. — Forte est mera forma lignicola *P. truncatæ*. In exemplaribus venetis adsunt conidia 3-septata, loculis 2 interioribus primo flavidis, dein atro-olivaceis, 2 extimis hyalinis, 12-18 ≃ 4-7, loculo supremo 2 rostellis, 20-25 ≃ 1, ornato, inferiore in pedicellum, 20-30 ≃ 1, desinente.

47. **Pestalozzia truncata** Lév. Ann. Sc. nat. 1846, V. p. 285, *Didymosporium truncatulum* Corda Ic. fung. VI. fig. 16, *Pestalozzia truncatula* (Corda) Fuck. Symb. Myc. p. 391, t. I. fig. 43, a. b. — Acervulis gregariis globoso-depressis, innato-erumpentibus, intus nigris; conidiis ovatis v. oblongis, sæpe inæquilateralibus, stipitatis 4-cellularibus, cellulis 2 mediis majoribus, cuboideis, fuligineis, guttulatis, extimis minutissimis hyalinis, supera in cilia 2-4 abeunte, infera in basidium filiforme conidium superans, utraque denique secedente et conidium truncatum 1-septatum 16-17 ≃ 9 muticum relinquente. 4148

Hab. in ramis et ligno Quercus, Fagi, Padi, Eucalypti, Salicis, Populi, conis Abietis, caulibus Hyperici etc. in Gallia, Bohemia, Italia, Germania, California.

48. **Pestalozzia heteromorpha** Thüm. Contr. Myc. Lusit. n. 575. — Acervulis amphigenis, densissime gregariis, hemisphærico-emersis, nitide fusco-atris, magnis, sine ordine dispositis et sine macula; conidiis fusiformibus, plerumque arcuatis, tri-raro quadricellularibus, 4149

cellula apicali hyalina, acutata et ciliis tribus longissimis, rectis, subulatis, achrois ornata, cellulis ceteris dilute griseis, ad septa subconstrictis, in pedicellum longum angustatis, 18–22 = 5.

Hab. ad folia arida Polygoni platycodontis, Coimbra in Lusitania. — Species valde insignis!

49. **Pestalozzia compacta** B. et C. North Amer. Fung. n. 488. — 4150
Pustulis elevatis, distinctis, medio perforatis; conidiis anguste triseptatis, brunneis, *P. Guepini* similibus.

Hab. in caulibus Humuli Lupuli in Carolina infer. Am. bor.

50. **Pestalozzia hypericina** Ces. in Kl. Herb. myc. II. n. 64, Bot. Zeit. 4151
1855, p. 599. — Acervulis lineolatis, nigris, sæpe rimose dehiscentibus v. fatiscentibus; nucleo pallido; conidiis 3-septatis, curvis, pellucidis, utrinque bisetis, setis simplicibus divaricatis, imo reflexis conidii longitudine, loculo conidiorum inferiori e mediis ampliore.

Hab. in caulibus corticatis et decorticatis Hyperici perforati in Italia superiore.

51. **Pestalozzia caulicola** Lév. in Ann. Sc. nat. 1846, V. p. 285. — 4152
Acervulis sparsis, innatis, globosis, nigris, ostiolis erumpentibus conicis pertusis; conidiis ovatis, 3-4-locularibus, aristis 4–5 simplicibus vel ramosis.

Hab. in caule Cirsii lanceolati, Paris in Gallia.

52. **Pestalozzia Moorei** Harkn. Calif. F. p. 14. — Acervulis subcu- 4153
ticularibus, in maculis pallidis orbicularibus, erumpentibus et matricem inquinantibus; conidiis fusiformibus, 3-septatis; loculis duobus mediis pallide brunneis, oblongo-nucleatis, ceteris hyalinis et acute conicis; basidiis conidium æquantibus vel duplo longioribus, e conidio facile secedentibus, aristis 4 conidio duplo longioribus, 32 = 9.

Hab. in caulibus emortuis Hosackiæ glabræ, Antioch in California.

53. **Pestalozzia herbicola** Sacc. Myc. ven. Spec. pag. 199, tab. XVII. 4154
f. 27. — Acervulis convexo-planis, erumpentibus; conidiis fusoideis 5-locularibus; loculis 3 interioribus fuscis, guttulatis, 2 extimis hyalinis, 25 = 6, stipite hyalino, 10 μ. longo; rostellis 3 patentissimis, hyalinis, 15 μ. longis.

Hab. in foliis exsiccatis Stellariæ Holosteæ et Galii silvatici in silva Montello agri tarvisini in Ital. bor.

54. **Pestalozzia torulosa** B. et C. North Amer. Fungi n. 486. — 4155
Acervulis parvis, sparsis vel e macula nigra oriundis; conidiis bi-

septatis constricto-torulosis, 25–37 μ. longis; loculis extimis subinde brunneis.

Hab. in seminibus Citrulli vulgaris in Carolina. — Conidia utrinque aucta sunt locello minuto hyalino, altero aristas altero basidium gerente.

55. **Pestalozzia capitata** Ellis Torr. Bot. Club. 1882, p. 133. — Acer- 4156
vulis hysteriiformibus, erumpentibus, minutis, subseriatis dein confluentibus, puccinioideis; conidiis clavato-oblongis, 3-septatis, loculo inferiori hyalino, ceteris brunneis, parte colorata 15 ≃ 7,5; arista tripartita conidium subæquante, divaricato-capitata.

Hab. in foliis emortuis Xerophylli asphodeloidis in America boreali.

56. **Pestalozzia clavata** C. et Ell. in Grevillea t. 99, fig. 7. — Acer- 4157
vulis punctiformibus, congestis vel circinatis, e macula pallida fusco-cincta oriundis; conidiis subclavatis, tricellulatis, loculo infero hyalino, parte colorata, 22 ≃ 8, pedicellis hyalinis, distinctis; aristis ternis conidium æquantibus.

Hab. in foliis Smilacis, New Jersey Amer. bor.

57. **Pestalozzia Phœnicis** Vize Grev. V. p. 14. — Maculis brunneis; 4158
acervulis minutis, atris, nitidis, subimmersis, hinc illinc cæspitosis; conidiis subfusiformibus, 4-septatis, bicristatis, longe pedicellatis, articulis tribus intermediis brunneis, 18 ≃ 7 (p. colorata).

Hab. in foliis Phœnicis dactyliferæ in India.

58. **Pestalozzia Palmarum** Cooke in Grevillea t. 86. fig. 3. — Erum- 4159
pens, atra, gregaria vel sparsa; acervulis sphæriæformibus; conidiis fusiformibus, quadriseptatis, pallide fuscis, triaristatis, stipite elongato, hyalino, 15 ≃ 5-6 (parte colorata).

Hab. in fructu germinante et foliis putrescentibus Cocos nuciferæ, Demerara et Bengal Asiæ.

59. **Pestalozzia macrospora** Ces. in Kl. H. Myc. n. 1663, Sacc. Fungi 4160
Ven. V. p. 198. F. it. t. 1114, *P. Pteridis* Sacc. in Thüm. Mycoth. Univ. n. 83. — Acervulis gregariis, subcutaneis, depressis, atris, subinde confluentibus et erumpendo fœdantibus; conidiis fusoideis, 40 ≃ 7-8, 5-locularibus; loculis 3 interioribus dilute olivaceis, extimis hyalinis; ciliis plerumque 5 filiformibus, 18-20 μ. long., arcuato-patulis, sæpe ramulosis; stipite conidiorum filiformi 5-6 μ. long., hyalino.

Hab. in frondibus languidis Pteridis aquilinæ prope Vercelli et Treviso Ital. bor.

II. *Monochætia* Sacc.

Conidia saltem partim colorata, apice 1-aristata.

60. **Pestalozzia monochæta** Desm. Ann. Sc. nat. 1848, p. 355, Sacc. F. ital. t. 1119 et Myc. Ven. Spec. p. 198, t. XVII. f. 25, *Coryneum rostratum* Fuck., *Pestalozzia Peckii* Clint. in Peck. Rep. — Acervulis sparsis gregariisve sæpe hypophyllis, maculas varias, arescentes occupantibus, atris sæpe inquinantibus; conidiis fusoideis, 4-locularibus; loculis 2 interioribus fuscis, 2 extimis hyalinis, 10 ≃ 4; stipite hyalino, 18-20 μ. longo, rostello apicali subrecto 5-6 μ. longo. 4161

Hab. in foliis exsiccatis Quercus pedunculatæ, Q. albæ Castaneæ et Eucalypti in Gallia, Italia, Germania, Belgio, Amer. bor. — β. **Libertiana** Sacc. Mich. II. p. 634: conidiis paullo longioribus, nempe 15 ≃ 4-5, triseptatis; loculis intermediis fuligineis extimis hyalinis; rostellum 6 ≃ ½ obliquum. In ramulis Sambuci in Arduennis (Libert).

61. **Pestalozzia Saccardoi** Speg. in Sacc. Mich. I. p. 480. — Acervulis parenchymate immersis, punctiformibus, densiuscule gregariis; conidiis 4-septatis, 20 ≃ 5; loculis 3 internis atro-opacis, 2 extimis hyalinis; superiore acute conoideo, majusculo 1 rostellum singulum e basi curvato-uncinatum hyalinum 10-15 ≃ 1½ gerente, inferiore in pedicellum, 30-40 ≃ 2, desinente. 4162

Hab. ad folia dejecta putrescentia Quercus, Conegliano et in silva Montello Ital. bor.

62. **Pestalozzia concentrica** B. et Br. North Am. Fungi n. 491. — Acervulis concentricis e macula pallida oriundis; conidiis triseptatis, 10 μ. longis ut plurimum monochætis, arista obliqua, rarius trifida. 4163

Hab. in foliis Piri, Cratægi, Castaneæ et Quercus virentis in Carolina et Florida Americæ bor. — *Pestalozziæ monochætæ* proxima.

63. **Pestalozzia bicornis** Dur. et Mont. Fl. Alg., I. p. 586. — Epiphylla, depazeoides; acervulis (peritheciis?) sphæricis, pachydermaticis, innatis, 300 μ. diam., epidermide dealbata, fissa, tandem prominulis; conidiis oblongis 2-3-locularibus, appendice singula curvata utroque fine coronatis, 15 ≃ 6,5. 4164

Hab. in foliis Phillyreæ mediæ et Quercus, Stora et Alger (Durieu). — Si adest perithecium aptius ad *Cryptostictim* referendum genus.

64. **Pestalozzia monorhincha** Speg. F. Arg. Pug. IV. n. 311. — A *Pest.* 4165
decolorata, cui affinis, recedit conidiis majoribus, 20–30 ≃ 6–7, semper tantum 3-septatis; loculis internis chlorinis, 2 extimis hyalinis, supero in rostellum sublaterale apice sæpius curvulum producto.

Hab. in foliis languidis Eugeniæ unifloræ, in dumetis uliginosis, Quilmes Argentinæ.

65. **Pestalozzia compta** Sacc. Mich. II. p. 542, F. ital. t. 1116. — 4166
Maculis epiphyllis e circulari angulosis, ochraceis, vix discolori-marginatis; acervulis sparsis innato-erumpentibus, circulari-inæqualibus, atris; conidiis oblongo-fusoideis, 9–10 ≃ 4,5–5, utrinque acutiusculis, 4-locularibus, vix constrictis; loculis 2 intermediis fuligineis, extimis hyalinis, setula apicali unica stipiteque filiformibus, hyalinis, 18–20 ≃ 0,7.

Hab. in foliis languidis Rosæ muscosæ, Selva in Ital. bor. 4167

66. **Pestalozzia americana** Mont. Fl. Chil., VII. p. 481, et Syll. Crypt. n. 931. — Epiphylla; acervulis (peritheciis?) ovoideis, folio immutato innatis, tandem in ostiolum subprominentibus attenuatis; conidiis oblongis, pedicellatis, biseptatis, fuscis, apice unicornibus.

Hab. in foliis dejectis in Chile (Gay).

67. **Pestalozzia Jefferisii** Ell. in Torr. Bot. Club. 1883, p. 133. — 4168
Acervulis nigris, planis, erumpentibus, sparsis; conidiis ellipticis, 5-septatis, brunneis, loculis terminalibus hyalinis, 18–20 ≃ 7,5–9, basidiis longis, gracilibus suffultis, apice arista brevi obliqua, 5,5–7 μ. longa auctis.

Hab. in Viburno prunifolio, West Chester Amer. bor.

68. **Pestalozzia unicornis** C. et Ell. in Grevillea[illegible] Acervulis lirel- 4169
læformibus, atris; conidiis cylindricis, 5-septatis, brunneis; cellulis ultimis hyalinis, superne unicornutis, inferne longe stipitatis, 35 ≃ 8.

Hab. in ligno Cupressi thyoidis, New Jersey Amer. bor.

69. **Pestalozzia monochætoidea** Sacc. et Ell. in Sacc. Mich. II. p. 4170
375, F. ital. t. 1117. — Acervulis gregariis, epidermide velatis, pulvinatis e globoso inæqualibus, ¼–⅓ mill. diam., nigris; conidiis breve fusoideis, inæquilateralibus, 8–10 ≃ 4, utrinque obtusiusculis, 3-septatis, non constrictis, loculis mediis fuligineis, extimis hyalinis, apice setulâ 8–10 ≃ ½ hyalinâ terminatis basidiisque filiformibus, 8–10 ≃ ½, suffultis.

Hab. in ramulis Spirææ emortuis, Newfield Americæ bor. (Ellis). — Affinis *P. microsoræ* Sacc. Michel. II. 273.

70. **Pestalozzia plagiochæta** Sacc. Mich. I. p. 533, Sacc. F. ital. t. 1118. — Acervulis globoso-lenticularibus, innato-erumpentibus, dein cupulatis, atris; conidiis oblongo-cylindraceis, subinæquilateralibus, 38–40 ≃ 9, 6-locularibus; loculis extimis hyalinis, ceteris fuligineis, loculo supero obtusiusculo infra apicem setulam obliquam, 8 μ. long., hyalinam gerente, loculo infero in stipitem, 6–8 μ. long., attenuato. 4171

Hab. in cortice ramorum Lauri nobilis in Gallia (Brunaud).

71. **Pestalozzia Veneta** Sacc. Mich. I. p. 92, Fungi ital. t. 83. — Acervulis gregariis subcutaneis, denique erumpentibus, lenticularibus, aterrimis; conidiis oblongo-fusoideis, 30–34 ≃ 7, 5-septatis, ad septa non constrictis; loculis 4 interioribus fuligineis, minute guttulatis, extimis minoribus, hyalinis, seta terminali filiformi, 15–18 ≃ 1, tortuosa hyalina, stipitibus filiformibus, fasciculatis, 40–45 ≃ 1, e pseudostromate lutescente oriundis, hyalinis. 4172

Hab. in ramis corticatis Corni sanguineæ, Selva, Conegliano in Ital. bor. (Spegazzini).

72. **Pestalozzia seiridioides** Sacc. *Coryneum marginatum* Hazsl. Sph. d. Ros. p. 213, t. IV. 29–37, vix Fr., *Seiridium marginatum* Fuck. Symb. p. 391, t. II. fig. 31 (?). — Acervulis disciformibus, atris, erumpentibus; conidiis tereti-fusoideis, 5-septatis, non constrictis, 26–28 ≃ 6–7; loculis 4 interioribus fuligineis, 1-guttatis, extimis conicis hyalinis; arista apicali singula filiformi conidium subæquante, curva dein rectiuscula; basidiis filiformibus fasciculatis partim cum conidio secedentibus et aristam curvam simulantibus. 4173

Hab. in ramis corticatis Rosæ in Hungaria et Helvetia. — Affinis *Pestalozziæ venetæ*, sed in hac basidia in aristam persistere non observavi.

73. **Pestalozzia Tecomæ** Niessl Hedw. 1883, p. 188. — Acervulis planiusculis, tectis, irregularibus, sinuatis, e badio subatris; conidiis fusiformibus, rectis vel leviter curvatis, 3-septatis, pedicellatis, fuscis, plerumque monochætis, 20–24 ≃ 7–8 (sine pedicello), rostello curvato. 4174

Hab. in ramulis aridis Tecomæ radicantis, Coimbra in Lusitania.

74. **Pestalozzia coryneoidea** Harkn. Calif. p. 13. — Acervulis planiusculis, nigris, oblongis vel ovalibus, 1 mill. diam., denique depressis et irregulariter hiantibus; conidiis fusiformibus, curvis 5-septatis, 35–37 ≃ 12, viridi-nigricantibus; loculis apicalibus, hyalinis. 4175

minutis, quandoque obsoletis; apice oblique 1-aristato, setula tertiam conidii partem æquante.

Hab. in ramis emortuis Umbellulariæ californicæ, Tamalpais in California. — Differt a *Pestalozzia plagiochæta* conidiis crassioribus et loculis terminalibus minoribus.

75. **Pestalozzia microsora** Sacc. Mich. vol. II. pag. 284. — Acervulis gregariis minutissimis subcutaneis; conidiis oblongo-fusoideis, sæpe curvulis, 12-14 ≃ 6, 4-5-septatis, loculis interioribus fuligineis, extimis minutis hyalinis, seta filiformi brevi obliqua 10 μ. longa apice acutis, stipitibus fasciculatis filiformibus, 18 ≃ 1, suffultis. 4176

Hab. in caule Euphorbiæ spinosæ, S. Giuliano, Toscana (Groves). — Characteribus *Pest. monochætæ* subaffinis, habitu vero prorsus aliena.

76. **Pestalozzia? anomala** Harkn. F. Calif. p. 13. — Pustulis minutis, irregularibus, sæpe confluentibus, matricem inquinantibus; conidiis fusiformibus, curvatis, 3-septatis, constrictis, 15-18 ≃ 5-6, pallide brunneis; loculis terminalibus hyalinis; basidiis crassiusculis, conidio æquilongis deciduis; setula singula in utroque fine conidium superante irregulariter 1-3-ramosa; setula basilari obliqua e latere basidii simulate egrediente. 4177

Hab. in caule, quem omnino obducit, Eriogoni virgati in mont. Diablo in California.

77. **Pestalozzia macropoda** Speg. in Sacc. Mich. I. p. 480. — Acervulis epiphyllis, primo tectis dein erumpentibus, conoideis, minutissimis, cinereo-fuligineis; conidiis fusiformibus, 35-38 ≃ 7, 4-septatis, ad septa leniter constrictis; loculis 3 interioribus olivaceis, 2 extimis hyalinis, superiore rostellum unicum obliquum vel rectum, 15 ≃ 1-1½, apice abrupte et brevissime recurvato-uncinatum gerente, inferiore in pedicellum, 45-50 ≃ 1, desinente. 4178

Hab. in frondibus emortuis Pteridis aquilinæ, Conegliano in Ital. bor.

III. *Pestalozzina* Sacc.

Conidia tota hyalina.

78. **Pestalozzia unicolor** B. et C. North Amer. Fungi n. 584. — Acervulis minutissimis; conidiis oblongis, utrinque leviter attenuatis triseptatis, hyalinis, 25 μ. longis. 4179

Hab. in Junipero, New England in Amer. bor.

79. **Pestalozzia laurina** Mont. Cent. VI. n. 94, in Ann., 3, XII. 312. 4180

Syll. Crypt. n. 933. — Hypophylla; acervulis gregariis punctiformibus atris erumpenti-innatis; conidiis fusariiformibus hyalinis demique vix fulvellis, primo subcontinuis, mox transversim 4-5-septatis, 30 = 3, altero fine appendicibus subternis divaricatis instructis.

Hab. in foliis Lauri nobilis, Montaud-lez-Miramas Galliæ (Castagne), et Lauri caroliniensis in Carol. inf. (Ravenel).

80. **Pestalozzia Callunæ** Ces. in Rabenh. F. Eur. n. 61, et Bot. Zeit. 1860. p. 174. — Acervulis (peritheciis?) carbonaceis, subinnato-emersis, sparsis, irregularibus, plerumque oblongis, haud raro compressis, cito vertice ruptis et tunc fere cenangioideis; conidiis numerosissimis, minutis, cylindraceis, curvulis, utrinque obtusiusculis et setigeris, obscure multiseptatis. 4181

Hab. in ramis Callunæ vulgaris prope Oropa in Ital. bor. — «An vera *Pestalozzia?*».

IV. *Species mihi minus notæ.*

81. **Pestalozzia phacidioides** Ces. in Kl. H. Myc. II. n. 65. — In caulibus Linariæ in Italia boreali prope Vercelli et in Belgio prope Bererloo. 4182

82. **Pestalozzia depazeiformis** Auersw. in Œsterr. Bot. Zeit. 1868, pag. 209. — In Austria et Italia bor. 4183

83. **Pestalozzia ramealis** Fr. Summa Veg. Scand. pag. 416. — In Suecia. 4184

RHOPALIDIUM Mont. et Fries, Ann. Sc. nat. 2. VI. pag. 30. et Fr. Summa p. 476 (Etym. *rhopale* clava). — Acervuli innati, subepidermici, fusci foliicoli. Conidia 2-pluriseptata, clavata, subhyalina, stipitata, gelatinæ immersa.

1. **Rhopalidium Brassicæ** M. et Fr., l. c., t. 12, f. 4. — Acervulis fuscis, amphigenis, cuticula semper tectis; conidiis conglutinatis, longe clavulatis, pedicellatis, multiseptatis, septis transversis 7 ad 9, inæqualiter distantibus, pellucidis. 4185

Hab. in foliis moribundis Brassicæ oleraceæ prope Lyon Galliæ.

SEPTOGLŒUM Sacc. Mich. II. p. 11. (Etym. *septum* et *glœum* h. e. *Glœosporium phragmosporum*). — Acervuli biogeni, minuti, subepidermici, subinde erumpentes, pallidi. Conidia oblonga, 2-pluriseptata, hyalina. — Est quasi *Glœosporium* conidiis pluriseptatis.

1. **Septoglœum Angelicæ** (C.) Sacc. *Glœosporium Angelicæ* Cooke 4186

in Grevill. — Maculis fuscis, variis; acervulis gregariis, rotundatis, vix prominulis; conidiis cylindrico-clavatis, nucleatis, demum biseptatis, hyalinis, 40–60 ≃ 8.

Hab. in foliis languidis Archangelicæ, Aiken Carolinæ.

2. **Septoglœum Apocyni** Peck 34 Rep. St. Mus. 45, t. 1, f. 1–2. — 4187
— Maculis paucis, latis irregularibus, brunneo vel nigro-brunneis; acervulis parcis; conidiis crasse subcylindraceis, utrinque rotundatis, dilute coloratis, 22–38 ≃ 2,5, 4–6-septatis, non constrictis, guttulatis.

Hab. in foliis vivis Apocyni cannabini, North Greenbush in Amer. sept.

3. **Septoglœum carthusianum** Sacc. Mich. II. p. 11, *Glœosporium carthusianum* Sacc. Mich. I. p. 93, F. it. t. 86. — Acervulis in maculis foliorum expallentibus subcircularibus, remote sparsis, prominulis, initio epidermide velatis, flavidis; conidiis in basidiis brevissimis apice rotundatis acrogenis, oblongo-cylindraceis, 30 ≃ 9–12, constricto-2-septatis, guttulatis, hyalinis; loculis quandoque secedentibus. 4188

Hab. in foliis languidis Evonymi europæi in silva Montello, loco ubi erat Carthusia, in Italia boreali.

4. **Septoglœum Nuttallii** Harkn. F. Calif. p. 13. — Amphigenum, circinans; maculis pallidis, 2–5 mill. diam., sparsis in pag. super.; conidiis cylindraceis, truncatis, 1–5- sæpius 1-septatis, 36–45 ≃ 4–5, in cirros carneos exsilientibus. 4189

Hab. in foliis vivis Nuttalliæ cerasiformis, Tamalpais Californiæ.

5. **Septoglœum Fraxini** Harkn. F. Calif. p. 12. — Maculis minutis, albidis, angulosis, 4–10 mill. diam.; acervulis epiphyllis; conidiis cylindraceis, 2–5-septatis, hyalinis, 16–24 ≃ 4–5. 4190

Hab. in foliis vivis Fraxini Oreganæ, Tamalpais Californiæ.

6. **Septoglœum acerinum** (Pass.) Sacc. Mich. II. p. 541, Fungi ital. t. 1071, *Glœosporium acerinum* Pass. in Thüm. M. Eur. n. 93. — Acervulis initio subcutaneis, disciformibus, subsuccineis; conidiis fusoideis, curvulis, 20 ≃ 4, trinucleatis spurieque biseptatis, hyalinis; basidiis brevissimis papilliformibus. 4191

Hab. in foliis adhuc vivis Aceris campestris prope Parma (Passerini). – *Gl. acerinum* West. Exs. n. 979 forte huc spectat, sed in specimine l. c. a me examinato conidia tantum binucleata vidi.

7. **Septoglœum salicinum** (Peck) Sacc. *Glœosporium salicinum* Peck 4192

33 Rep. St. Mus. p. 26. — Maculis latis, irregularibus, indefinitis, aridis, pallidis; conidiis elongatis, subfusiformibus, curvatis vel flexuosis, obscure triseptatis; loculis 1-nucleatis, hyalinis, 40-55 μ. lg.

Hab. in foliis vivis Salicis sericeæ, Sandlake Amer. bor.

8. **Septoglœum maculans** Harkn. F. Calif. p. 12. — Maculis epiphyllis circularibus, atro-fuscis, 1-1½ cent. diam.; acervulis hypophyllis, in cirros pallide flavos exsilientibus; conidiis fusoideis utrinque vehementer curvatis, hyalinis. 30-50 ≃ 6-9, plasmate 2-7-partito. 4193

Hab. in foliis vivis Salicis lasiolepidis, Tamalpais Californiæ.

PROSTHEMIELLA Sacc. Mich. II. p. 356, F. ital. t. 1090 (Etym. ab analogo *Prosthemio*). — Acervuli innati, dein erumpentes, perithecio vero destituti, supra læticolores. Conidia copiosissima, cylindracea, deorsum crassiora, plura basi (*Prosthemii* ad instar) stellatim connata, hyalina, septulata. — A *Prosthemio* defectu perithecii, conidiis hyalinis etc. facile dignoscitur.

1. **Prosthemiella formosa** Sacc. et Malbr. in Mich. II. p. 356. F. it. t. 1090. — Acervulis convexo-pulvinatis, diu peridermio tectis, dein irregulariter erumpentibus, basi nigricantibus, disco amœne aureis, ¾-1 mill. diam.; conidiis 3-8 stellatis, obclavatis, 40-45 ≃ 4, deorsum septulatis et sæpe torulosis, granulosis, hyalinis, cellula centrali varie angulosa. 4194

Hab. ad ramos fagineos, Brionne Galliæ (Malbranche) et in Arduennis (Libert). — Fungus cum nullo commutandus! *Prosthemium formosum* Lib. Herb. n. 601 huc spectat.

STEGANOSPORIUM Corda Icon. Fung. III. p. 22. (Etym. *steganos* tectus, densus, et *spora*). — Acervuli subcutanei, dein subinde erumpentes, atri, pulvinati, compacti. Conidia solitaria h. e. non catenulata, ovoidea vel piriformia, 2-pluriseptata et muriformia. Basidia bacillaria, sæpe paraphysibus intermixta.

1. **Steganosporium piriforme** (Hoffm.) Corda Icon. Fung. III. p. 23, tab. 4, fig. 61, Sacc. F. ital. tab. 1108, *Stilbospora piriformis* Hoffm. F. germ. II. tab. XIII. fig. 2, *Stilbospora ovata* Pers. Obs. I. tab. 2, fig. 2. — Gregarium; acervulis immersis, semper tectis, coriaceis, atris; conidiis clavato-obpiriformibus, 35-40 ≃ 15-18, utrinque, præcipue apice, rotundatis, 4-6-septatis, non constrictis, septo uno alterove longitudinali (vel saltem plasmate murali-diviso), olivaceo-fuligineis, basidiis filiformibus, 40-50 ≃ 2-3, suffultis. 4195

Hab. in cortice trunci Tiliæ, Fagi, Aceris Pseudoplatani in Germania, Italia bor., Gallia, Amer sept.

2. **Steganosporium irregulare** (B. et C.) Sacc., *Coryneum irregulare* B. et C. North Amer. Fungi n. 482. — Acervulis elevatis distinctis; conidiis obovatis, 4-6-septatis, 150 μ. longis, deorsum attenuatis; loculis infimis, angustis et sensim in stipitem tenuissimum abeuntibus; endochromatibus verticaliter divisis. 4196

Hab. in ramis Betulæ, Alabama in Amer. bor.

3. **Steganosporium Æsculi** Sacc. Syll. II. p. 3, ut *Massariæ Æsculi* stat. conid. — Acervulis pulvinatis, subcutaneo-erumpentibus, fuscis; conidiis piriformibus, 3-4 transverse et longitudinaliter septatis, fuscis, demum totis opacis, 40 ≃ 20. 4197

Hab. in ramulis Æsculi Hippocastani in Italia boreali, Germania, Gallia.

4. **Steganosporium compactum** Sacc. in Mich. II. p. 542, F. ital. t. 1107, *Coryneum compactum* Sacc. F. Ven. Ser. V. p. 198, nec B. et Br. — Acervulis ligno basi insculptis, pulvinato-applanatis, compactis, nigricantibus; conidiis fasciculatis, oblongis clavatisque 50 ≃ 20, 3-6-septatis muriformibusque, ad septa constrictis, fuligineo-cinnamomeis; basidiis teretiusculis, conidio brevioribus, concoloribus. 4198

Hab. in ramis emortuis Ulmi, Selva (Treviso) in Italia bor. — Acervuli ab initio verisimiliter cortice nidulantes.

5. **Steganosporium fenestratum** (E. et E.) Sacc. *Stilbospora fenestrata* Ellis et Ev. Bull. Torr. 1884, p. 18. — Stromate subcuticulari vel indistincto; conidiis ellipticis, fenestratis, brunneis, 35-40 ≃ 15-20, crasse stipitatis et cuticulam in pustulas elevantibus, denique erumpentibus et effluentibus maculasque minutas, atras formantibus. 4199

Hab. in ramis emortuis Clethræ alnifoliæ, New Field N. J. Amer. bor.

6. **Steganosporium cellulosum** Corda Icon. Fung. III. fig. 62, *Sporidesmium cellulosum* Fr. sec. Klotzsch Exs. n. 189. — Acervulis effusis, nigris; conidiis subpiriformibus, 5-7-septato-muriformibus, non constrictis, fuligineis, 32-34 μ. longis; basidiis copiosis subramosis, hyalinis. 4200

Hab. in ramis emortuis Tiliæ microphyllæ in Germania Britannia, Belgio et Amer. bor. — Quoad speciem americanam (in Acere saccharino. Cfr. B. et C. North Amer. Fungi) dubium adest, nam conidia 50 μ. longa describuntur.

7. **Steganosporium taphrinum** Sacc. Syll. II. p. 290 ut *Teichosporæ taphrinæ* stat. conid. Fuck. Symb. App. II. p. 305. — Acervulis in macula albescenti, ramulos decorticatos sæpe totos occupantibus, gregariis, ligno immersis, ellipticis, compressis, corneis, ex ligno protuberantibus, aterrimis, demum vertice irregulariter hiascentibus et conidia ut pulverem nigrum emittentibus; conidiis valde polymorphis, plerumque obovatis subpiriformibus, ovatis, oblongis, rotundatis, simplicibus vel 1-3-septatis muriformibusque vel cruciatim septatis, fuscis, plerumque 8-10 μ. longis. 4201

Hab. in ramulis siccis decorticatis Populi tremulæ in Suecia et Germania.

8. **Steganosporium Platani** Preuss F. Hoyersw. n. 336. — Gregarium; acervulis cortici immersis, tectis, atris; basidiis filiformibus, albis; conidiis subpiriformibus, fuscis; nucleo quater in una serie posito (?). 4202

Hab. in ramorum cortice Platani, Hoyerswerda. — « Descriptio conidiorum nimis incerta ».

9. **Steganosporium castanicolum** (B. et C.) Sacc. *Coryneum castanicola* B. et C. North Amer. Fungi n. 481. — Acervulis prominulis epidermide arcte cinctis; conidiis elongatis, breviter, pedicellatis pluri-septatis, leniter curvatis; endochromatibus demum verticaliter divisis. 4203

Hab. in ramis levibus Castaneæ in Pensylvania Amer. bor.

10. **Steganosporium cavernosum** Mont. sept. cent. pl. cell. ined. p. 347. — Erumpens; acervulis immersis sursum erumpentibus, excavatis; conidiis ovoideis, olivaceis, obtusis, initio brevissime pedicellatis, mox liberis, 20 ≃ 12, irregulariter cellulosis, lignum elevato-colliculosum canescentem haud inquinantibus. 4204

Hab. in caudice annoso Oleæ europææ prope Montaud-lès-Miramas in Gallia.

11. **Steganosporium chlorinum** Pass. et Beltr. F. Sic. n. 34. — Stromate nullo; acervulis subdiscoideis, pulveraceis, olivaceo-viridibus; conidiis globosis, ellipticis vel fusiformibus, minute et sæpius obscure cellulosis, olivaceis, magnitudine variis, 20-60 ≃ 15-20. 4205

Hab. in ligno denudato Oleæ europææ, Monostalla Siciliæ. — « An potius *Sporodesmium?* ».

12. **Steganosporium obscurum** (Corda) Sacc., *Coryneum obscurum* Corda Icon. Fung. I. p. 8, t. II. f. 123. — Erumpens, atrum; stromate immerso convexo, intus corneo, atro; conidiis erectis 5-6-septato-muriformibus, ad septa subconstrictis, oblongis, fuscis; pedicellis longis simplicibus v. ramosis, articulatis, subdiaphanis, fuscis. 4206

Hab. in virgultis arborum frondosarum prope Reichenberg in Bohemia. — « An fungus potius *macrosporoideus?* ».

13. **Steganosporium muricatum** Bon. Handb. Myk. p. 60, f. 52. — Acervulis tectis, ovoideis, mycelio filamentoso cinctis; conidiis oblongo-ovoideis, 5-7-septato-muriformibus, ad septa constrictis, deorsum acutatis et in basidium filiforme hyalinum conidio subæquale attenuatis, dein in cirros tenues atros effluentibus. 4207

Hab. in corticibus in Guestphalia.

14. **Steganosporium clavatum** Preuss F. Hoyersw. n. 47. — Gregarium; acervulis immersis, dein subliberis, orbicularibus, opaco-atris, primum medio papillatis; basidiis filiformibus, albis; conidiis clavatis fusiformibusque; episporio albo; nucleo septato, fusco, subquadrato. 4208

Hab. in cortice arborum frondosarum, Hoyerswerda.

15. **Steganosporium Guyonianum** (M. et D.) Sacc. *Didymosporium Guyonianum* Mont. et Dur. Fl. Alg. I. p. 330. — Amphigenum; conidiis oblongis triseptatis, tandem cellulosis, sub epidermide folii in acervulos atros punctiformes, 100-150 μ. diam., demum grumulose erumpentes conglutinatis, 13 ≃ 7-8. 4209

Hab. in foliis Suedæ maritimæ in desertis sabulosis, ad meridiem urbis Biskra late patentibus (Guyon). — « An *Stigmella?* ».

PHRAGMOTRICHUM Kunze et Schm. Myk. Hefte II. p. 84, t. II. f. 4. (Etym. *phragma* septum et *thrix* capillus, filamentum). — Acervuli subcutaneo-erumpentes, depressi, atri. Conidia angulosa, catenato-superimposita, pluriseptato-clathrata fusca, isthmis teretiusculis, septatis pallidioribus connexa. — *Bullariæ* et *Seiridio* perfecte analogum genus, sed conidia septato-muriformia.

1. **Phragmotrichum Chailletii** Kunze l. c., Sacc. F. ital. t. 1101, Corda Ic. Fung. III. p. 30, f. 80. — Acervulis innatis, pulvinatis, nigricantibus, oblongis vel subcircularibus, ½-1 mill. diam.; conidiis subrhomboideis, crebre muriformibus, 20 ≃ 15, fuligineis, angulis subhyalinis per isthmos filiformes subhyalinos, 2-3-septatos catenulatim connexis. 4210

Hab. in strobilis Abietis in horto botanico romano (Bagnis), prope Neufchâtel Helvetiæ (Chaill.), in Vogesis (Malbranche), in Suecia (Sommerfelt).

2. **Phragmotrichum acerinum** Fr. Summa Veg. Scand. p. 474, Scler. 4211

Suec. n. 437 (non vidi). — Acervulis....; conidiis ovali-oblongis, non angulatis, cellulosis, isthmo concatenatis; perithecio nullo.

Hab. in ramis? Acerum in Suecia.

3. **Phragmotrichum quercinum** Hoffm. Ic. anal. fung. p. 69, t. 17, 4212
f. 1. — Acervulis tuberculiformibus, atris, orbicularibus, sparsis (superficialibus); conidiis approximatis vel discretis, oblongis, muriculatis, septatis vel rarius murali-divisis, 25-30 ≃ 12-15; isthmis brevibus, sæpe nullis.

Hab. ad lignum quercinum fabrefactum, carie exesum prope Darmstadt Germaniæ. — «Ex icone mihi potius *Sirodesmium* videtur».

REPERTORIUM

MELANCONIEARUM

SECUNDUM MATRICES

Obs. A. indicat *Agyriella.* — As. *Asterosporium.* — B. *Blennoria.* — Bo. *Bloxamia.* — Bu. *Bullaria.* — C. *Colletotrichum.* — Co. *Coryneum.* — Ca. *Cryptomela.* — Cr. *Cryptosporium.* — Cy. *Cylindrosporium.* — D. *Didymosporium.* — G. *Glœosporium.* — H. *Hainesia.* — Ha. *Hyaloceras.* — Hy. *Hypodermium.* — L. *Libertella.* — Mi. *Marsonia.* — Mu. *Melanconium.* — Me. *Melanostroma.* — Mo. *Myxormia.* — Ma. *Myxosporella.* — M. *Myxosporium.* — N. *Nœmospora.* — Pa. *Pestalozzia.* — P. *Pestalozziella.* — Pi. *Phragmotrichum.* — Pe. *Prosthemiella.* — R. *Rhopalidium.* — So. *Scolecosporium.* — Si. *Seiridium.* — Se. *Septoglœum.* — S. *Septomyxa.* — Su. *Steganosporium.* — St. *Stilbospora.* — Ti. *Thyrsidium.* — T. *Trullula.*

N. 3656 — 3999 citantur 656 — 999
N. 4001 — 4212 citantur 1 — 212

Abies — G. 761. — Hy. 809. 811. — Cr. 878. — Mu. 970. — Ti. 2. — Pa. 148. — Pi. 210.
Acacia — G. 708. — Co. 56. — Pa. 110. 147.
Acer — H. 657. — G. 677. 678. — M. 775. — L. 898. — D. 9. — Mi. 27. — Co. 62. 71. — Se. 191. — Su. 200. — Pi. 211.
Acorus — Cr. 889.
Ægopodium — Cr. 886.
Æsculus — G. 756. — S. 22. — Su. 197.
Agave — Mu. 986.
Agrostemma — Mi. 35.
Alisma — Cy. 865.
Alnus — G. 735. 736. — M. 801. — Cr. 866. — L. 901. — N. 922. 923. — Mu. 935. 959. 960. 961. 962. — St. 42. 46. — Co. 66. 80.
Alocasia — G. 766.
Aloe — G. 676.
Ammophila — Ca. 994,
Amygdaleæ — C. 58.
Amygdalus — Pa. 146.
Andropogon — C. 844.
Apocynum — Se. 187.
Aquilegia — G. 659. 660.
Aralia — Pa. 125.
Araucaria — Pa. 135.
Arauja — G. 706.
Arbutus — Cr. 884. — Co. 59.

Archangelica — Se. 186.
Arctostaphylos — G. 704. — Cr. 885.
Arundinaria — Mu. 989.
Arundo — Mu. 989. — Ca. 995.
Atragene — Mi. 34.

Bartsia — G. 712.
Betula — G. 732. 733. 734. — M. 797. 798. 799. — Cr. 866. — L. 897. — Mu. 963. 964. 965. — Ca. 997. — Ti. 1. — D. 13. — St. 43. — Co. 68. 74. 75. 76. — As. 95. 96. — Su. 196.
Borrago — Cy. 857.
Brassica — G. 665. — R. 185.
Bridelia — Pa. 132.
Buxus — B. 815. — G. 714. — Pa. 135.

Cactus — St. 51.
Calophyllum — Pa. 121.
Caltha — Cy. 849. 850.
Calluna — Pa. 181.
Calycanthus — Co. 61.
Calycotome — G. 684.
Camellia — Pa. 146.
Capparideæ — Cr. 888.
Capparis — G. 666.
Carex — Ca. 992. 993.
Carpinus — G. 722. 723. 863. — M. 788. — Cr. 872. — N. 910. — Mu. 928. 957. 946. 963. 966. — Ti. 998. 4000. — D. 8. — St. 41. 45. — Co. 70. — Pa. 116.
Carya — Mu. 944. 946. 948.
Caryota — Mu. 983.
Castanea — M. 795. — Cr. 881. — N. 906. 910. — Mu. 954. 955. 956. — St. 44. — Co. 69. 74. 78. 90. — Pa. 161. 163. — Su. 203.
Celastrus — D. 11.
Celtis — D. 14.
Cercis — Pa. 111.
Cinchona — St. 52.
Cirsium — Pa. 152.
Citrullus — Pa. 155.
Clavaria — Mu. 991.
Clethra — Su. 199.
Cocos — Pa. 159.
Colchicum — Cy. 863.
Colletia — M. 777.
Coniferæ — C. 846.
Cornus — M. 776. — St. 45. — Co. 57. — Pa. 172.
Corylus — G. 725. 726. — M. 788. 789. 790. 791. 792. 793. — N. 916. — Ti. 4. — Co. 79.
Cratægus — N. 913. 915. — Co. 59. 85. 86. — Pa. 163.
Cryptomeria — Pa. 135. 138.
Cucumis — G. 757.
Cucurbita — G. 758. 759. — N. 921. — S. 21.
Cupressus — Pa. 135. 136. 169.
Cycas — B. 820.
Cydonia — G. 689. 738.

Daphne — Mi. 30.
Diospyros — T. 838.
Donax — Mu. 990.
Dracæna — M. 805.

Echinocactus — N. 920.
Eriogonum — Pa. 177.
Erodium — G. 679.
Evonymus — G. 680. — Mi. 29. — Pa. 123. 124. 135. — Se. 188.
Eucalyptus — G. 750. — Cr. 867. — Mu. 931. — St. 45. — Pa. 103. 104. 105. 135. 148. 161.
Eugenia — Pa. 106. 165.
Euphorbia — Pa. 176.

Fagus — G. 727. 728. — M. 794. 804. — Cr. 871. — L. 892. 893. 903. — N. 910. — Mu. 928. 951. — Ti. 999. — D. 9. — St. 45. — Co. 74. — So. 94. — As. 95. — Pa. 135. 148. — Pe. 194.
Ficaria — Cy. 848.
Ficus — Mu. 958.
Fragaria — G. 690.

Fraxinus — G. 699. — M. 794. — T. 824. — N. 906. — Se. 190.
Fuchsia — Pa. 130.

Galium — Pa. 154.
Genista — Pa. 108.
Geranium — P. 847.
Geum — Cy. 855.
Gleditschia — M. 769.
Graminaceæ — T. 837.
Glycyrrhiza — Cy. 851.

Hamamelis — G. 664.
Hardenbergia — G. 687.
Hedera — G. 696. 697. — Mu. 934. 935. — Ti. 998. — Pa. 126.
Helianthemum — G. 667.
Hepatica — G. 662.
Hosackia — Pa. 153.
Hoya — G. 676. 707. 708.
Humulus — Pa. 150.
Hypericum — Pa. 148. 151.

Jasminum — Mu. 936.
Ilex — G. 670. — Pa. 118. 119. 120.
Inula — G. 701.
Iris — Pa. 135.
Juglans — G. 760. — Cr. 870. 882. — Mu. 945. 946. 947. 948. — Mi. 28. — Pa. 129.
Juniperus — Pa. 135. 179. — Co. 92.

Kerria — T. 828. — N. 909. — Co. 59.

Lagerstrœmia — Pa. 146.
Laportea — G. 715.
Laurus — G. 713. — T. 822. — Mu. 941. — Pa. 171. 180.
Leguminosæ — G. 685.
Libanotis — G. 745.
Ligustrum — G. 682.
Linaria — Pa. 182.
Liquidambar — Si. 99.
Liriodendron — M. 771.
Lobelia — G. 702.
Lonicera — L. 895. — Mi. 29. — Pa. 122. 135.
Lupinus — Cr. 880.
Lychnis — G. 700. — Mi. 35.
Lycium — Mu. 937. — D. 5.
Lycopersicum — G. 754.

Magnolia — G. 663. — N. 919. — Mu. 929. — Pa. 146.
Malus — Pa. 122.
Marchantia — Co. 93.
Melilotus — Mi. 39.
Morus — Cr. 868. 883. — Mu. 942. — D. 19. — Pa. 142.
Musa — M. 806.
Myginda — G. 681.
Myosotis — Cy. 857.
Myrica — Pa. 107.
Myrtaceæ — Pa. 102.

Neillia — Mi. 30.
Nerium — Pa. 134.
Nuttallia — Se. 189.
Nyssa — Cr. 869.

Olea — Mu. 940. — Ha. 101. — Su. 204. 205.
Orchidaceæ — G. 707. 765.
Oreoselinum — T. 834.
Ostrya — G. 724.
Osyris — Pa. 131.
Oxyanthus — Pa. 133.

Pæonia — Co. 55.
Paliurus — T. 822.
Pandanus — Mu. 985.
Panicum — Ca. 996.
Passerina — Mi. 38.
Paulownia — T. 822.
Persica — G. 753. — T. 822.
Phaseolus — G. 747. — Cy. 852.
Phillyrea — Pa. 164.
Phœnix — Pa. 158.
Phormium — G. 763.
Photinia — Pa. 117. 135.

Phragmites — Mu. 989.
Physalis — G. 709. — Cy. 859.
Phytolacca — G. 742.
Pinus — G. 737. — Hy. 809. 810. 813. — Mu. 967. 969. — St. 50. 53. — Pa. 140. 147. 135. 139.
Pirus — G. 751. 752. — M. 772. — T. 826. — Cr. 886. — Mu. 928. — Pa. 116. 163.
Plantago — Cy. 860.
Plantanus — G. 716. 717. 743. — Ma. 814. — D. 12. — St. 47. — Pa. 143. — Su. 202.
Podocarpus — T. 825. — Pa. 135.
Polygonum — Cy. 861. — Pa. 149.
Polypodium — G. 767.
Populus — G. 719. 720. 721. — M. 769. 781. 782. 783. 784. — Me. 808. — T. 822. 832. — Cr. 876. 877. — N. 907. — Mu. 943. — D. 12. — Mi. 24. 25. 26. — Co. 67. 77. — Pa. 148. — Su. 201.
Potentilla — G. 690. — Mi. 37.
Prosopis — G. 749.
Prunus — M. 773. — Cy. 854. — Mu. 925. 927. — Co. 70. — Pa. 113. 148.
Pteris — G. 768. — Pa. 135. 160. 178.

Quercus — G. 729. 730. 731. 762. — M. 791. 796. 797. 804. — Cr. 873. L. 899. 900. — N. 906. 910. 917. 918. 924. — Mu. 950. 963. — D. 17. 18. — Mi. 33. — St. 46. 48. — Pa. 118. 144. 145. 148. 161. 162. 163. 164. — Pi. 212.

Ranunculus — G. 661. — Cy. 850.
Rhamnus — M. 769.
Rhododendron — G. 705. — Co. 88. 89. — Pa. 135. 146.
Rhus — H. 656. — G. 683. — M. 778. — M. 939. — D. 15.
Ribes — G. 693. 694. 695. — Cr. 887.
Robinia — M. 770. — T. 829. — M. 930.
Rosa — M. 774. — T. 833. — L. 894. — N. 912. 914. — Pa. 147. 166. 173.
Rosaceæ — Si. 97. — Pa. 112.
Rubus — H. 658. — G. 692. 739. — B. 816. — A. 821. — T. 822. 823. 837. — N. 914. — Mu. 926. — Co. 59. 60. 85. — Pa. 115. 135.
Rumex — Cy. 862. — Co. 65.
Ruscus — B. 819. — C. 842. 843.

Sabal — Mu. 984.
Salix — G. 718. — M. 769. 785. 786. 787. — Me. 808. — Cr. 874. 875. — L. 902. — N. 908. — S. 23. — Co. 72. 73. — Si. 98. — Pa. 147. 148. — Se. 192. 193.
Sambucus — Mu. 938. — Pa. 161.
Sanguisorba — G. 691.
Sarothamnus — Pa. 109.
Saxifraga — Cy. 853.
Scirpus — Pa. 134.
Scleromycetes — C. 845.
Scrophularia — Cy. 858. — Pa. 135.
Secale — Mu. 988.
Sequoja — Pa. 135.
Silene — Mi. 35.
Smilax — Mi. 40. — Co. 84. — Si. 100. — Pa. 135. 146. 157.
Solanum — Cr. 879.
Sorbus — Cr. 886.
Sorghum — D. 7.
Spartium — T. 827.
Sphæriaceæ — C. 845.
Spiræa — C. 841. — Cy. 856. — Pa. 170.
Staphylea — St. 49.
Stellaria — Pa. 154.
Suæda — Su. 209.
Symphytum — Cy. 857.
Syringa — L. 894.
Syzygium — Pa. 114.

Taxodium — Pa. 135.
Taxus — Mu. 968. — Pa. 135.
Tecoma — Co. 63. — Pa. 174.
Thuja — Pa. 135. 137. 138.

Tilia — G. 669. — Mu. 932. 933. — Co. 71. 75. — Pa. 143. — Su. 200.
Trifolium — G. 688.
Typha — Mu. 987.

Ulmus — M. 779. 780. — B. 839. — Co. 67. 68. 70. 71. — Pa. 141. — Su. 198.
Umbelliferæ — G. 746. — C. 844. — Bu. 20.
Umbellularia — B. 818. — Pa. 175.
Urostigma — D. 6.

Vaccinium — G. 703. — Co. 64.
Vanilla — G. 707.
Veratrum — Cy. 864.
Veronica — G. 710. 711.
Viburnum — G. 698. — Pa. 168.
Viola — G. 668. — Mi. 36.
Viscum — T. 831.
Vitis — G. 740. 741. 755. — T. 822. — Co. 59. — Pa. 127. 128. 129.

Xerophyllum — Pa. 156.
Xerotes — G. 764.

INDEX ALPHABETICUS

GENERUM

SPILEROPSIDEARUM ET MELANCONIEARUM

ADDITIS SECTIONIBUS GENERICIS.

Actinonema 408
I. *Eu-Actinonema*: spor. 1-septat. 408
II. *Asteromidium*: sp. 2-plurisept. 409
Actinothecium 638
Agyriella 731
Amerosporium 680
Amphisporium 692
Angiopoma 442
Aposphæria 169
Aschersonia 619
Ascochyta 384
I. In foliis Dicotyled. lignosar. 384
II. In ramulis Dicotyled. lignos. 394
III. In Dicotyledoneis herbaceis. 396
IV. In Monocotyled. et Acotyled. 405
Asteroma 201
I. *Eu-Asteroma*: perithecia et sporulæ nota 201
II. *Asteromata dubia*: spor. ignot. 204
A) In Dicotyledoneis lignosis. 204
B) In Dicotyledoneis herbaceis. 209
C) In fructibus et gallis . 213
D) In Monocotyledoneis . 214
E) In Acotyledoneis . . 215
F) Species minus notæ. . 215
Asteromella 182
Asterosporium 782
Blennoria 730
Bloxamia 734
Botryodiplodia 377
Bullaria 766
Camarosporium 459
A) In Dicotyledoneis lignosis. 459
I. Rami-fructicolæ 459
II. Foliicolæ 466
B) In Dicotyledoneis herbaceis 467
C) In Monocotyledoneis, Acotyledoneis et charta . . 466
Catinula 673
Ceuthospora 277
Chætodiplodia 374
Chætomella 321
I. *Eu-Chætomella*: spor. olivac. 321
II. *Melochæta*: sporul. hyal. . 322
Chiastospora 621
Cicinnobolus 216
Coccobolus 692
Collacystis 616
Colletotrichum 735
Coniothyrium 305
I. In Dicotyledoneis arboreis 305
II. In Dicotyledoneis herbaceis. 315
III. In Monocotyledoneis . . 316
IV. In Acotyledon. et in stercore. 319
Cornularia 598
Coryneum 774
I. Species cauli-ramicolæ . 774
II. Species foliicolæ . . . 780
Couturea 442
Crocicreas 183
Cryptomela 760
Cryptosporium 740
I. Species ramicolæ . . . 740
II. Species foliicolæ . . . 743
Cyptosticis 443
Cylindrosporium 737

Cyphina 623
Cystotricha 413
Cytoplea 325
Cytospora 251
I. Arboricolæ (ramicolæ) . 251
II. Foliicolæ et fructicolæ . 275
III. Herbicolæ 276
IV. Minus notæ 277
Cytosporina 601
Cytosporella 251
Cytosporium 470
Darluca 410
Dendrophoma 178
I. *Eu-Dendrophoma:* per. subcutanea 178
II. *Dendrophomella:* perithecia superficialia . . . 180
Dichlæna 620
Dichomera 471
Didymosporium 763
II. *Epiclinium* 765
Dilophospora 600
Dinemasporium 683
I. *Eu-Dinemasporium*: sporulæ utrinque 1-aristatæ . . 683
II. *Stauronema*: sporulæ cruciato-aristatæ. 686
Diplodia 329
I. In Dicotyledoneis . . . 329
A) Ramicolæ. . . . 329
B) Folii-fructicolæ . . 358
C) Caulicolæ 364
II. In Monocotyledoneis . . 370
Diplodiella 375
Diplodina 411
Discella 687
Discosia 653
Discula 674
I. Ramicolæ 674
II. Cauli-fructicolæ. . . 676
III. In Monocotyledoneis . . 677
Dothichiza 671
Dothiorella 235
I. Species minores . . . 236
II. *Hydnopsis*: stromata major. 242
Endobotrya 470
Endotrichum 692
Entomosporium 657
Ephelis 691
Eriospora 600
Excipularia 689
Excipula 665
I. *Eu-Excipula*: spor. muticæ. 666
II. *Melanophœa:* spor. appendic. 667
III. *Dubiæ:* spor. ignotæ. . 667
IV. *Incognitæ* 670
Excipulina 688
Fuckelia 244
Fusicoccum 247
Gelatinosporium 596
Gloeosporium 699
I. In foliis Dicotyledoncarum. 699
II. In ramis, caulibus Dicotyl. 715
III. In fructibus et gallis Dicotyl. 717
IV. In Monocotyledoneis et Acotyledoneis 720
Godroniella 665
Hainesia 698
Haplosporella 323
Harknessia 320
Hendersonia 418
I. *Eu-Hendersonia:* spec. minor. 419
A) In ramis Dicotyl. lignosar. 419
B) In foliis fructibusque Dicotyledonum lignosarum . 426
C) In caulibus, foliis fructibusque Dicotyled. herbacear. 430
D) In Monocotyl. et Acotyled. 434
II. *Sporocadus:* spec. majores. 440
III. *Hendersoniella*: sp. epixylæ 441
Hendersonula 445
Heteropatella 670
Hyaloceras 783
Hypocenia 320
Hypodermium 728
Hysteromyxa 622
Labrella 647
Lemalis 672
Leptostroma 639
I. In Dicotyledoneis lignosis. 639
A) Species ramicolæ . . 639
B) Species folii-fructicolæ . 641
II. In Monocotyledoneis et Acotyledoneis 642

III. In Dicotyledoneis herbaceis. 645
IV. Species vix notæ . . 647
Leptostromella 659
Leptothyrium 626
I. In Dicotyledoneis arboreis. 626
A) Species foliicolæ . . . 626
B) Species ramicolæ . . 631
C) Species fructicolæ . . 632
II. In Dicotyledoneis herbaceis. 632
A) Species foliicolæ . . . 632
B) Caulicolæ 633
III. In Monocotyledoneis et Acotyledoneis 635
Levieuxia 321
Libertella 744
Libertiella 616
Lichenopsis 442
Macrodiplodia 374
Marsonia 767
Melanconium 749
I. In Dicotyledoneis v. incertis. 750
II. In Monocotyledoneis et Acotyledoneis 758
Melanostroma 728
Melasmia 637
Melophia 658
Micula 604
Micropera 604
Microsticta 693
Muricularia 218
Mycogala 185
Myxormia 734
Myxosporella 729
Myxosporium 722
Næmospora 746
Neottiospora 216
Neurœcium 692
Oncospora 691
Patellina 622
Peckia 217
Pestalozzia 784
I. *Eu-Pestalozzia*: conid. color. pluri-ristata. . . 781
II. *Monochætia*: conid. colorata, 1-aristata 797
III *Pestalozzina*: conid. hyal. 800
IV. Species minus notæ . . 801
Pestalozziella 737
Phleospora 577
Phlyctæna 593
Phoma 65
I. In Dicotyledoneis lignosis. 66
A) Ramicolæ 66
B) Foliicolæ 100
II. In Dicotyledoneis herbaceis. 118
A) Caulicolæ 118
B) Foliicolæ 143
III. In fructibus et floribus Dicotyledonearum . . . 147
IV. In Monocotyledoneis . . 156
V. In Acotyledoneis . . 167
VI. In insectis, charta, stercore. 168
VII. Species minus notæ . . 169
Phragmotrichum . . . 806
Phyllosticta 3
I. In Dicotyledoneis arboreis. 3
II. In Dicotyledoneis herbaceis. 37
III. In Monocotyledoneis et Acotyledoneis 58
Appendix. *Depazea* . . . 62
Piggotia 636
Pilidium 689
Piptostomum 183
Pirostoma 653
Placosphæria 244
Appendix: *Cliostomum* . . 246
Plenodomus 184
Pleococcum 679
Pleosporopsis 693
Polynema 687
Polystigmina 622
Prosthemiella 803
Prosthemium 444
Protostegia 690
Pseudodiplodia 621
Pseudopatella 688
Psilospora 679
Pyrenochæta 219
Pyrenotrichum 184
Rabenhorstia 243
Rhabdospora 578
I. In Dicotyledoneis lignosis . 579
II In Dicotyledoneis herbaceis. 586
Rhopalidium 801

Rhynchophoma 414
Robillarda 407
Roumeguèriella 616
Sacidium 649
I. Species typicæ 650
II. Species quoad genus dubiæ . 651
Sclerotiopsis 184
Scolecosporium 782
Schizothyrella 690
Seiridium 782
Septoglœum 801
Septomyxa 766
Septoria 472
I. In Dicotyledoneis . . 475
A) Foliicolæ 475
§ In plantis lignosis. . 475
§§ In plantis herbaceis . 508
B) Carpogenæ . . . 558
II. In Monocotyledoneis . . 560
III. In Acotyledoneis et in Insectis 576
Sirococcus 217
Sphærographium. 596
Sphæronæma 185
I. *Eu-Sphæronæma*: sporulæ subhyalinæ . . . 185
A) In Dicotyledoneis lignosis. 185
B) In Dicotyledoneis herbaceis. 195
C) In Monocotyledoneis et Acotyledoneis etc. . . . 195
II. *Næmosphæra*: spor. coloratæ 198
III. Species minus notæ . . 198
Sphæronæmella 617
Sphæropsis. 291
I. *Eu-Sphæropsis*: sporulæ non mucosæ 292
A) In Dicotyledoneis lignosis. 292
B) In Dicotyledoneis herbaceis. 302
C) In Monocotyled. et Acotyl. 303
II. *Macroplodia*: sporulæ muco obvolutæ 305
Sporonema 677
Stagonospora 445
I. In Dicotyledoneis . . 446
II. In Monocotyled. et Acotyl. 450
Stagonopsis. 621
Staurochæta 218
Steganosporium. . . . 803
Stilbospora. 771
Thyrsidium 761
Trullula 731
I. *Eu-Trullula*: basidia ramul. v. simpl.; conid. olivac. 731
II. *Cesatia*: basidia simpl. conidia hyalina . . . 732
III. *Hormococcus*: basidia ramosa; conid. hyalina . . 733
IV. Species dubiæ . . . 734
Vermicularia 221
I. In Dicotyledoneis arboreis. 222
A) Ramicolæ. . . . 222
B) Petioli-fructicolæ . . 223
C) Foliicolæ 224
II. In Dicotyledoneis herbaceis. 225
A) Caulicolæ. . . . 225
B) Foliicolæ 231
C) Fructicolæ . . . 232
III. In Monocotyledoneis . . 232
IV. In Acotyledoneis . . 235
V. Species indescripta . . 235
Ypsilonia 215
Zythia 614
Weinmannodora . . . 325

INDEX ALPHABETICUS SPECIERUM

SPHÆROPSIDEARUM ET MELANCONIEARUM

Ex synonymis [*cursive impressis*], *ea modo citantur, quæ, quoad specifica adjectiva, a nominibus acceptis desciscunt.*

abdita (Phoma). 88.
aberrans (*Myxosporium*). 766.
abietinum (Gelatinosporium). 596.
Abietis (Cornularia). 598.
Abietis (Cytospora). 269.
abnormalis (*Hendersonia*). 641.
abnorme (Camarosporium). 461.
abnorme (Coniothyrium). 312.
abnormis (Discella). 688.
abnormis (Phoma). 69.
abnormis (Sphæropsis). 301.
Abrotani (Diplodia). 368.
abscondita (Sphæropsis). 301.
Absus (Sphæropsis). 292.
Acaciæ (Diplodia). 336.
Acaciæ (Pestalozzia). 786.
Acaciæ (Phoma). 148.
Acanthi (Septoria). 535.
acanthina (Phoma). 128.
acerella (Septoria). 479.
acericola (Hendersonia). 429.
acericola (Phyllosticta). 14.
acericola (Septoria), 577.
acerina (*Diplodia*). 331.
acerina (Libertella). 745.
acerina (Melasmia). 637.
acerina (Septoria). 478.
acerinum (Dinemasporium). 680.
acerinum (Glœosporium). 703.
acerinum (Leptostroma). 640.
acerinum (Leptostroma). 647.
acerinum (Leptothyrium) 630.
acerinum (Phragmotrichum). 806.
acerinum (Septoglœum). 802.
acerinum (Sphæronæma). 187.
Aceris (Asteroma). 207.
Aceris (*Didymosporium*). 768.
Aceris (*Diplodia*). 331.
Aceris (Glœosporium). 703.
Aceris (Phleospora). 577.
Aceris (Phyllosticta). 14.
Aceris (Septoria). 577.
Aceris-Negundinis (Phoma). 153.
acervalis (Phoma). 97.
acervata (Diplodina). 412.
Acetosæ (Depazea). 63.
Acetosæ (Phyllosticta). 55.
Acharii (Cytospora). 267.
Achenarum (Asteroma). 213.
Achilleæ (Phoma). 124.
acicola (Diplodia). 358.
acicola (Phoma). 100.
acicola (Pyrenochæta). 220.
acicola (Septoria). 507.
Acicula (Sphæronæma). 190.
acicularis (Sphæronæmella). 617.
aciculosa (Septoria). 511.
Acmella (Phoma). 115.
Aconiti (Diplodia). 369.
acorella (Phyllosticta). 59.
Acori (Phyllosticta). 59.
Acrospermum (Sphæronæma). 192.
acuminata (Vermicularia). 233.
acuminatum (Didymosporium). 764.

acuminatum (Sphæronæma). 188.
acuaria (Phoma). 100.
aculeorum (Phoma). 76.
acuta (Phoma). 133.
acutum (Melanconium). 757.
acuum (Phoma). 100.
Adenophoræ (Septoria). 545.
Adoxæ (Septoria). 543.
adoxicola (Depazea). 63.
adpressa (Rabenhorstia). 244.
advena (Dothiorella). 240.
ægirina (Septoria). 502.
Ægopodii (*Ascospora*). 529.
Ægopodii (Septoria). 529.
ægopodina (Septoria). 529.
æquivoca (Phoma). 159.
æquivocum (Camarosporium). 467.
æquivocum (Coniothyrium). 317.
æmulans (Sphæronæma). 195.
æneus (Coccobolus). 692.
Æsculi (Cytosporella). 251.
Æsculi (Diplodia). 331.
Æsculi (Fusicoccum). 247.
Æsculi (Septomyxa). 766.
Æsculi (Septoria). 479.
Æsculi (Steganosporium). 804.
æsculicola (Phyllosticta). 4.
æsculina (Phyllosticta). 3.
æsculina (Septoria). 479.
Ætheorrhizæ (Septoria). 552.
affine (Coryneum). 776.
affine (Dinemasporium). 686.
affine (Glœosporium). 709.
affine (Sphæronæma). 186.
affinis (Cytospora). 263.
affinis (Phoma). 85.
affinis (Septoria). 563.
africana (Phoma). 93.
Agapanthi (Phoma). 158.
Agaves (Coniothyrium). 318.
Agaves (Diplodia). 371.
agminalis (Aposphæria). 171.
Agrimoniæ (Depazea). 63.
Aguirrei (Sphæropsis). 297.
Ailanthi (Botryodiplodia). 378.
Ailanthi (Cytosporina). 603.
Ailanthi (Phoma). 95.
Ailanthi (Phyllosticta). 30.
ailanthina (Diplodia). 332.
ailanthina (Phoma). 95.
Ajugæ (Pyllosticta). 50.
Ajacis (Phyllosticta). 38.
Alaterni (Ceuthospora). 279.
alba (Blennoria). 730.
alba (Dendrophoma). 179.
alba (Libertella). 746.
albaniensis (Septoria). 501.
albicans (Phoma). 123.
albistratum (Coniothyrium). 313.
albo-maculata (Vermicularia). 244.
albo-nigra (Septoria). 507.
albo-punctata (Septoria). 493.
albo-zonata (Diplodia). 334.
album (*Eurotium*). 166.
album (Myxosporium). 726.
Alceæ (Leptostroma). 647.
Alcides (Hendersonia). 429.
Alcides (Phyllosticta). 34.
alicola (Phoma). 168.
aliena (Phyllosticta). 16.
Alismacearum (Cylindrosporium). 740.
alismatella (Septoria). 570.
Alismatis (Lemalis). 672.
Alismatis (Phyllosticta). 60.
Alismatis (Septoria). 569.
Alismatis (*Sphæria*, *Depazea*). 60.
allantella (Aposphæria). 171.
allantella (Stagonospora). 449.
allantoidea (Rhabdospora). 586.
alliacea (Septoria). 572.
Alliariæ (Asteroma). 204.
alliicola (Phoma). 157.
Alliorum (Septoria). 571.
allostoma (Phoma). 74.
alnea (Discosia). 654.
alnea (Phoma). 98.
alneum (Glœosporium). 715.
alneum (Leptothyrium). 627.
alneum (Xyloma). 654.
Alni (Diplodia). 355.
Alni (Micula). 604.
Alni (Septoria). 506.
Alni (Sphæropsis). 299.
alnicola (Septoria). 506.
alnigena (Phyllosticta). 31.
alnigena (Septoria). 506.
Aloes (Phyllosticta). 60.
alpestre (Leptothyrium). 634.
alpestre (Sacidium). 652.
alpina (Phoma). 136.
alpinum (Asteroma). 206.
alpinum (Camarosporium). 461.
alpinum (Glœosporium). 708.
Althææ (Diplodia). 366.

Althææ (Septoria). 515.
althæina (Ascochyta). 399.
althæina (Phyllosticta). 40.
ambiens (Cytospora). 268.
ambigua (Phoma). 75.
ambigua (Sphæropsis). 304.
ambigua (Vermicularia). 224.
Ambrosioidis (Phyllosticta). 55.
Amelanchieris (Diplodia). 342.
americana (Pestalozzia). 798.
americanum (Glœosporium). 709.
americanum (Melanconium). 759.
Amenti (Phoma). 152.
Amenti (Vermicularia). 224.
amenticolum (Sphæronæma). 198.
Ammophilæ (Cryptomela). 760.
Ammophilæ (Phoma). 166.
Amorphæ (Diplodia). 337.
Amorphæ (Phoma). 68.
ampelina (Ascochyta). 389.
ampelina (Cytospora). 257.
ampelina (Diplodia). 332.
ampelina (Hendersonia). 423.
ampelina (Phoma). 79.
ampelina (Rhabdospora). 581.
ampelina (Septoria). 479.
ampelinum (Coniothyrium). 110.
ampelogena (Phoma). 110.
ampelophagum (Glœosporium). 719.
Ampelopsidis (Phoma). 79.
Ampelopsidis (Sphæronæma). 188.
amygdalinum (Cryptosporium). 741.
Amygdali (Diplodia). 341.
anaxæa (Phoma). 121.
anaxæa (Septoria). 549.
Andamensis (Diplodia). 370.
andicola (Diplodia). 368.
Andrachnes (Phoma). 169.
Andromedæ (Phoma). 111.
Andromedæ (Phyllosticta). 24.
Andropogonis (Chætomella). 323.
Androsæmi (Diplodia). 366.
Andurnensis (Marsonia). 770.
anceps (Cytospora). 255.
anceps (Phoma). 120.
anceps (Phyllosticta). 39.
anceps (Placosphæria). 246.
anemonca (Ascochyta). 522.
Anemones (Septoria). 521.
Anethi (Phoma). 125.
anethicola (Ascochyta). 400.
Angelicæ (Phyllosticta). 46.
Angelicæ (Septoglœum). 801.
Angreci (Asteroma). 214.
anguina (Phoma). 120.
angulatum (Asteroma). 209.
angulatum (Glæosporium). 717.
angusta (Septoria). 569.
angustata (Stilbospora). 772.
angustata (Vermicularia). 230.
angustatum (Sporidesmium). 772.
annulata (Pestalozzia). 787.
annularis (Zythia). 615.
Anodæ (Septoria). 475.
anomala (Diplodia). 364.
anomala (Discula). 677.
anomala (Hendersonia). 431.
anomala (Pestalozzia). 800.
anomala (Sphæropsis). 300.
anomala (Sphæropsis). 293.
Anonæ (Diplodia). 329.
anserinum (Coniothyrium). 313.
anthelmintica (Chætophoma). 201.
anthracina (Phoma). 138.
Arthrisci (Septoria). 530.
Antirrhini (Septoria). 535.
apiocarpon (Melanconium). 755.
Apocyni (Septoglœum). 802.
applanata (Rhabdospora). 579.
applanatum (Amerosporium). 682.
aquatica (Ascochyta). 405.
aquatica (Phyllosticta). 60.
aquatica (Stagonospora). 452.
aquifolia (Diplodia). 360.
aquifolia (Sphæropsis). 295.
Aquifolii (Cytospora). 274.
Aquifolii (Glœosporium). 701.
Aquilegiæ (Ascochyta). 396.
Aquilegiæ (Depazea). 63.
Aquilegiæ (Glœosporium). 700.
Aquilegiæ (Septoria). 525.
aquilina (Phoma). 167.
aquilina (Septoria). 576.
Arabidis (Septoria). 519.
arachnoidea (Chætodiplodia). 375.
Aratæ (Phyllosticta). 48.
Araucariæ (Hendersonia). 430.
Araujæ (Septoria). 542.
Araujæ (Ascochyta). 404.
Arbuti (Phyllosticta). 23.
arbuticola (Diplodia). 364.
arbuticola (Melasmia). 638.
Arctii (Phoma). 122.
Arctii (Vermicularia). 229.

arctica (Aposphæria). 176.
arcticta (Phoma). 150.
arctica (Septoria). 560.
Arctostaphyli (Sphæropsis). 297.
arcuata (Phlyctæna). 595.
arcuata (Septoria). 499.
Arcus (Stagonospora). 449.
Arecæ (Depazea). 64.
arenaria (Stagonospora). 453.
areolatum (Leptostroma). 642.
Arethusa (Septoria). 477.
argentina (Diplodia). 349.
Argentinæ (Phyllosticta). 40.
argyrea (Phyllosticta). 29.
argyræa (Septoria). 498.
Ari (Septoria). 568.
arida (Discella). 688.
Arisari (Septoria). 568.
Aristolochiæ (Ascochyta). 404.
Aristolochiæ (Septoria). 558.
Armoraciæ (Ascochyta). 397.
Armoraciæ (Septoria). 519.
Arnicæ (Phyllosticta). 45.
Arnicæ (Septoria). 548.
aromatophila (Phyllosticta). 18.
Aronici (Phyllosticta). 45.
Artemisiæ (Aposphæria). 173.
Artemisiæ (Chætomella). 322.
Artemisiæ (Phoma). 123.
Artemisiæ (Septoria). 548.
Artocarpi (Septoria). 500.
Artocreas (Discosia). 653.
Arunci (Phyllosticta). 41.
Arunci (Septoria). 511.
arundinacea (Diplodia). 373.
arundinacea (Diplodina). 413.
arundinacea (Hendersonia). 436.
arundinacea (Phoma). 164.
arundinacea (Septoria). 564.
arundinaceum (Coniothyrium). 319.
arundinella (Phoma). 165.
arundinicola (Cytoplea). 325.
Arundinis (Cryptomela). 761.
Arundinis (Hendersonia). 437.
Arundinis (Septoria). 564.
Arundinis (Stagonospora). 455.
arvense (Glœosporium). 710.
Asari (Septoria). 558.
asclepiadea (Diplodia). 365.
asclepiadea (Septoria). 542.
Asclepiadearum (Phyllosticta). 52.
Ascochytella (Septoria). 483.
ascochytoides (Darluca). 411.
ascochytoides (Diplodina). 412.
ascochytoides (Septoria). 486.
ascochytula (Diplodia). 345.
Ascochytula (Septoria). 482.
Asparagi (Ceuthospora). 280.
Asparagi (Phoma). 162.
aspera (Cytosporina). 602.
aspera (Dendrophoma). 179.
aspera (Excipula). 670.
Asperulæ (Depazea). 63.
Aspidiorum (Leptostroma). 645.
Asphodeli (Phoma). 161.
Asphodeli (Septoria). 570.
Asphodeli (Stagonospora). 451.
asphodelina (Phoma). 161.
asphodelina (Septoria). 571.
asterina (Sphæropsis). 298.
asterinum (Leptothyrium). 632.
Asteriscus (Phoma). 126.
asterophora (Cytospora). 284.
Astragali (Phyllosticta). 43.
Astragali (Septoria). 508.
Astrantiæ (Ascochyta). 400.
astroidea (Piggotia). 637.
aterrima (Dothiorella). 239.
aterrima (Placosphæria). 246.
atomispora (Phoma). 115.
atomoides (Phoma). 160.
Atomus (Phoma). 146.
atra (Chætomella). 321.
atra (Cryptomela). 760.
atra (Cytospora). 257.
atra (Sphæropsis). 296.
Atragenes (Marsonia). 769.
atramentaria (Diplodia). 352.
atramentaria (Hendersonia). 439.
atramentaria (Vermicularia). 227.
atramentarium (Asteroma). 202.
atrata (Diplodia). 331.
atratum (Asteroma). 212.
atrella (Chætophoma). 199.
atrificans (Phoma). 137.
atriplicina (Phoma). 140.
Atriplicis (Phyllosticta). 54.
Atriplicis (Septoria). 556.
atro-cœrul eum (Didy mosporium). 63.
atro-maculans (Phyllosticta). 52.
atro-nitens (Cytospora). 262.
atro-nitens (Piggotia). 637.
atro-purpurea (Septoria). 549.
atro-virens (Cytospora). 273.

atro-viridis (Myxormia). 734.
atrum (*Melanconium*). 754.
atrum (*Podosporium*). 301.
Aucubæ (Ascochyta). 389.
Aucubæ (Coniothyrium). 310.
Aucubæ (Diplodia). 361.
Aucubæ (Phoma). 115.
Aucubæ (Phyllosticta). 30.
Aucubæ (Septoria). 491.
aucubicola (Ascochyta). 388.
aucubicola (Diplodia). 344.
aucubicola (Phyllosticta). 30.
Aucupariæ (Phyllosticta). 7.
aurantiaca (Sphæronæmella). 618.
aurantiaca (Zythia). 614.
aurantiacum (Glœosporium). 717.
Aurantii (Diplodia). 330.
aurantiicola (Phyllosticta). 13.
Aurantiorum (Glœosporium). 702.
Aurantiorum (Phoma). 83.
aurea (Lemalis). 672.
aureum (Colletotrichum). 736.
auriculata (Phyllosticta). 29.
Aurora (Cytospora). 262.
autumnalis (Phyllosticta) 52.
autumnalis (Septoria). 527.
australasica (Dendrophoma). 181.
australasica (Sclerotiopsis). 184.
australe (Coniothyrium). 311.
australe (Cylindrosporium). 739.
australe (Glœosporium). 709.
australe (Myxosporium). 723.
Australiæ (Cytospora). 256.
Australiæ (Diplodia). 343.
australis (Ascochyta). 385.
australis (Hendersonula). 445.
australis (Phyllosticta). 11.
australis (Schizothyrella). 690.
Avellanæ (Septoria). 503.
Avicullariæ (Melasmia). 638.
Azedarachis (Phyllosticta). 30.

baccæ (Phoma). 149.
Bacchi (Diplodia). 332.
bacillare (Fusicoccum). 248.
bacillaris (Asteromella). 183.
bacillaris (Phoma). 134.
bacteriiformis (Phyllosticta). 34.
Baculum (Phoma), 91.
Badhami (Septoria). 480.
Badhami β. *Fraxini* (Septoria). 495.
Ballotæ (Asteroma). 210.
balloticola (Depazea). 64.
Balsaminæ (Septoria). 514.
Balsamitæ (Vermicularia). 229.
Baptisiæ (Septoria). 508.
Baptisiæ (Sphæropsis). 302.
basicystis (Aschersonia). 619.
basitrichum (Cytosporium). 470.
Batatæ (Phyllosticta). 51.
bataticola (Phyllosticta). 51.
Bauhiniæ (Phyllosticta). 11.
Belangerii (Phoma). 169.
bellidicola (Septoria). 548.
Bellidis (Septoria). 548.
Beltranii (Phyllosticta). 13.
bellulum (Myxosporium). 727.
Bellunensis (Septoria). 563.
Bellynckii (Phoma). 154.
Bellynckii (Septoria). 573.
berberidina (Ascochyta). 395.
Berberidis (Melasmia). 638.
Berberidis (Phoma). 72.
Berberidis (Phyllosticta). 26.
Berberidis (Septoria). 475.
berberina (Phoma). 72.
Bérengeriana (Dothiorella). 238.
Bergii (Coniothyrium). 307.
Bergii (Phoma). 115.
Berkeleyi (*Glœosporium*). 767.
Berkeleyi (Phoma). 134.
Berkeleyanum (Camarosporium). 464.
Berteroæ (Septoria). 519.
Besseyi (Septoria). 495.
Betæ (Phyllosticta). 54.
Betæ (Septoria). 556.
Betonicæ (Phoma). 130.
Betulæ (Asteroma). 208.
Betulæ (Dinemasporium). 686.
Betulæ (Diplodia). 355.
Betulæ (Dothiorella). 236.
Betulæ (Gloeosporium). 714.
Betulæ (Leptothyrium). 627.
Betulæ (Septoria). 505.
Betularum (Gloeosporium) 714.
betulicola (Septoria). 506.
betulina (Cytospora). 259.
betulina (Cryptomela). 761.
betulina (Libertella). 745.
betulina (Micropera). 605.
betulina (Phyllosticta). 32.
betulina (Septoria). 506.
betulinum (Asterosporium). 782.
betulinum (Gelatinosporium). 596.

betulinum (Glocosporium). 715.
betulinum (Melanconium). 756.
betulinum (Prosthemium). 444.
betulinum (Thyrsidium) 762.
Beyerincki (Coryneum). 774.
bicolor (Melanconium). 755.
bicolor (Mycogala). 185.
bicornis (Pestalozzia). 797.
bicristatum (Dinemasporium). 684.
bicuspidata (Aposphæria). 171.
Bidentis (Septoria). 547.
biforme (Coniothyrium). 318.
biformis (Sphæropsis). 298.
bifrons (Sphæria, Cryptosphæria). 278.
Bignoniæ (Phyllosticta). 28.
biocellata (Phoma). 167.
biseptata (Hendersonia). 419.
Bivonæ (Darluca). 411.
Bolleana (Phoma). 104.
Bolleana (Phyllosticta). 15.
Bolleana (Septoria). 487.
bombycina (Ascochyta). 389.
bonariensis (Phyllosticta). 36.
bonariensis (Septoria). 536.
boninensis (Septoria). 507.
Bonordenii (Libertella). 746.
Bonordenii (Sphæropsis). 301.
borbonicum (Coniothyrium). 318.
botrya (Dothiorella). 242.
botryoides (Leptothyrium). 627.
botryosporum (Thyrsidium). 762.
botryosphærioides (Coniothyrium). 312.
botryosphærioides (Dothiorella). 242.
Boudieri (Cornularia). 599.
Bowlesiæ (Septoria). 531.
brachiatum (Entomosporium). 657.
Brachypodii (Septoria). 563.
brachyspora (Chætomella). 322.
brachyspora (Diplodia) 329.
brachyspora (Septoria). 500.
brachysporum (Myxosporium) 727.
brachyurum (Coryneum). 779.
bractearum (Septoria). 515.
brasiliensis (Sphæropsis). 305.
Brassicæ (Ascochyta). 397.
Brassicæ (Asteroma). 209.
Brassicæ (Leptothyrium). 632.
Brassicæ (Phoma). 119.
Brassicæ (Phyllosticta). 38.
Brassicæ (Rhopalidium). 801.
Brassicæ (Zythia). 615.
brevipes (Pestalozzia). 788.
brevipes (Phoma). 160.
brevis (Ephelis). 691.
brevis (Stilbospora). 771.
breviseta (Pestalozzia). 787.
brevispora (Ceuthospora). 279.
breviuscula (Rhabdospora). 580.
Brissaceana (Septoria) 512.
Bromi (Septoria). 562.
Broussonetiæ (Phoma). 95.
Brunaudiana (Aposphæria). 170.
Brunaudiana (Hendersonia). 432.
Brunaudiana (Rhabdospora). 590.
brunnea (Sphæropsis). 300.
brunneola (Phoma). 160.
brunneola (Septoria). 573.
brunneo-tincta (Phoma). 152.
Brunneo-viride (Sphæronæma). 186.
Bryoniæ (Sacidium). 652.
Buddlejæ (Septoria). 498.
Buffoniæ (Phylctæna). 594.
Bullaria (Phragmotrichum). 766.
bullata (Oncospora). 691.
bullata (Stilbospora). 766.
Bumeliæ Septoria). 494.
Bupleuri (Ascochyta). 400.
Bupleuri (Asteroma). 211.
Bupleuri (Phyllosticta). 46.
Bupleuri (Septoria). 529.
bupleuricola (Septoria) 529.
buxella (Diplodia). 349.
Buxi (Blennoria). 730.
Buxi (Cytospora). 257.
Buxi (Diplodia). 360.
Buxi (Phacidium) 499.
Buxi (Sphæria). 105.
buxicola (Depazea). 24.
buxicola (Diplodia). 349.
buxina (Ascochyta). 393.
buxina (Phyllosticta). 24.

Cacaliæ (Asteroma). 211.
Cacti (Phoma). 138.
Cacti (Stilbospora). 773.
cæspitosa (Dothiorella). 238.
cæspitosa (Hyalosporella). 323.
cæspitosa (Stagonospora). 447.
cæspitosum (Sphæronæma). 187.
cæspitosum (Sphæronæma). 189.
cæspitulosa (Rhabdospora). 587.
cæspitulosum (Coniothyrium). 311.
Cajadensis (Septoria). 522.
Calabæ (Pestalozzia). 788.

Calami (Cryptosporium). 744.
Calami (Diplodia). 372.
Calami (Leptothyrium). 635.
Calcitrapæ (Rhabdospora). 593.
calathiformis (Ceuthospora). 278.
Calathiscus (Aposphæria). 171.
Callæ (Septoria). 569.
Callicarpæ (Coniothyrium). 311.
Callunæ (Pestalozzia). 801.
Callunæ (Phoma). 85.
Calotropidis (Phoma). 114.
calthæcola (Depazea). 62.
Calycanthi (Ascochyta). 392.
Calycanthi (Didymosporium). 765.
Calycanthi (Diplodia). 342.
Calycanthi (Phoma). 112.
Calycanthi (Phyllosticta). 9.
Calycanthi (Septoria). 489,
calycina (Septoria). 517.
Calystegiæ (Ascochyta). 402.
Calystegiæ (Phyllosticta). 51.
Calystegiæ (Septoria). 537.
Camelliæ (Leptostroma). 642.
Camelliæ (Phyllosticta). 25.
Caminus (Sphæronæma). 197.
Campanulæ (Phyllosticta). 51.
Campanulæ (Septoria). 544.
campanulatum (Angiopoma). 442.
Camphorosmæ (Camarosporium). 468.
canadensis (Discella). 688.
candida (Septoria). 503.
Candollei (Phoma). 105.
cannabina (Septoria). 557.
Cannabis (Phyllosticta). 53.
Cannabis (Septoria). 557.
capillare (Sphærographium). 597.
capitata (Cytospora). 254.
capitata (Pestalozzia). 796.
Capparidis (Phyllosticta). 39.
Capparidis (Septoria). 521.
Capreæ (Asteroma). 208.
Capreæ (Cytospora). 262.
Capreæ (Leptostroma) 640.
Capreæ (Septoria). 501.
Caprifolii (Phyllosticta). 19.
Caprifolii (Rhabdospora). 580.
Capsici (Labrella). 649.
Capsularum (Glœosporium). 718.
capsularum (Phoma). 147.
capsulicola (Phyllosticta). 48.
Caraganæ (Melasmia). 638.
carbonacea (Cytospora). 260.
carbonacea (Discella). 687.
carbonacea (Vermicularia). 224.
carbonaceum (Pilidium). 689.
Cardamines (Septoria). 520.
Cardunculi (Septoria). 550.
Caricæ (Ascochyta). 394.
Caricis (Cryptomela). 760.
Caricis (Phoma). 164.
Caricis (Phyllosticta). 61.
Caricis (Septoria). 566.
Caricis (Stagonospora). 452.
caricicola (Septoria). 566.
caricicolum (Actinothecium). 639.
caricina (Diplodia). 373.
caricina (Phoma). 164.
caricinella (Septoria). 566.
caricinum (Leptostroma). 645.
Caricum (Amerosporium). 682.
Caricum (Neottiospora). 216.
Carissæ (Phyllosticta). 36.
carneum (Myxosporium). 726.
carphosperma (Cytospora). 274.
carpinea (Ascochyta). 393.
carpinea (Depazea). 64.
carpinea (Phyllosticta). 32.
carpinea (Sphæropsis). 299.
Carpini (Diplodia). 353.
Carpini (Didymosporium). 763.
Carpini (Fusicoccum). 250.
Carpini (Glœosporium). 712.
Carpini (Hendersonia). 440.
Carpini Phyllosticta). 32.
carpinicola (Hendersonia). 440.
carpogena (Ascochyta). 402.
carpogena (Phoma). 156.
carpogenum (Glœosporium). 719.
carpophila (Phoma). 155.
carpophila (Septoria). 573.
carpophilum (Leptothyrium). 632.
carthagenensis (Ascochyta). 395.
Carthusianorum (Septoria). 516.
Carthusianum (Septoglœum). 802.
Caryæ (Sphæropsis). 299.
Cassiæ (Phoma). 66.
Cassinopsidis (Diplodia). 333.
cassiocarpa (Phoma). 147.
Castagnei (Coniotyrium). 309.
Castagnei (Couturea). 442.
Castagnei (Hendersonia). 439.
Castagnei (Marsonia). 768.
Castagnei (Pestalozzia). 793.
Castagnei (Phoma). 108.

Castaneæ (Asteroma). 208.
Castaneæ (Diplodia). 353.
Castaneæ (Leptothyrium). 628.
Castaneæ (Septoria). 504.
castaneum (Fusicoccum). 249.
castaneus (Coccobolus). 692.
castanicola (Septoria). 504.
castanicola (*Sphæria*). 628.
castanicolum (Steganosporium). 805.
cassubica (Diplodina). 412.
Catalpæ (Chætophoma). 199.
Catalpæ (Diplodia). 347.
Catalpæ (Phoma). 155.
Catalpæ (Septoria). 558.
Catalpæ (Sphæronæma). 189.
Catappæ (Diplodia). 343.
catenulata (Phoma). 142.
Catesbeyi (Chætophoma). 199.
Cathartici (Phyllosticta). 14.
cathartica (Septoria). 482.
Cathartocarpi (Diplodia). 377.
Cattanei (Septoria). 477.
caudata (Cryptostictis). 444.
caudata (Rhabdospora). 593.
caulina (Chætodiplodia). 374.
caulicola (Diplodia). 368.
caulicola (Pestalozzia). 795.
caulicola (Rhabdospora). 592.
caulicola (Stagonospora). 448.
caulincola (Phoma) 143.
caulincolum (Actinothyrium). 658.
caulium (*Ascochyta*). 594.
caulogena (Rhabdospora). 590.
caulographa (Phoma). 126.
Causcoræ (Phoma). 131.
cava (Aposphæria). 174.
cavernosum (Steganosporium). 805.
Ceanothi (Cytospora). 273.
cedrina (Labrella). 648.
Celastri (Botryodiplodia). 379.
Celastri (Leptothyrium). 631.
celastrina (Depazea). 64.
celastrina (Sphæropsis). 294.
cellulosum (Melanconium). 752.
cellulosum (Steganosporium). 804.
Celosiæ (Phyllosticta). 54.
Celtidis (Didymosporium). 764.
Celtidis (Diplodia). 349.
Celtidis (Septoria). 499.
celtifolia (Hendersonia). 429.
Celtis-gallæ (Septoria). 499.
cenisia (Cytospora). 271.
Centaureæ (Septoria). 551.
Centranthi (Phoma). 137.
Centranthi (Rabdospora). 592.
Cephalanthi (Ascochyta). 392.
cerasella (Phyllosticta). 4.
Cerasi (Asteroma) 202.
Cerasi (Asteroma). 206.
Cerasi (Coniothyrium). 307.
Cerasi (Sphæronæma). 187.
cerasina (Sphæropsis). 293.
cerasicola (Cytospora). 255.
cerasicola (Phyllosticta). 6.
cerasicolum (Asteroma). 202.
cerasina (Septoria). 489.
cerasinum (Melanconium). 750.
Cerasorum (Diplodia), 341.
Cerastii (Septoria). 518.
Ceratoniæ (Phyllosticta). 11.
Ceratoniæ (Septoria). 484.
ceratophora (Cytospora). 268.
ceratosperma (*Sphæria*). 265.
ceratospora (*Stilbospora*). 783.
Cercidis (Septoria). 484.
cereale (Leptostroma). 643.
Cerei (Camarosporium). 463.
cernuum (Sphæronæma). 195.
cerviculata (Cytosporina). 602.
Cesatii (Cicinnobolus). 216.
Cesatii (Haplosporella). 325.
Cestri (Septoria). 498.
ceuthosporoides (Septoria). 490.
Cichoriacearum (Phoma). 124.
Cichorii (Leptostroma). 647.
ciliatum (Dinemasporium). 684.
cincta (Cytospora). 254.
cincta (Diplodia). 355.
cincta (Phoma). 114.
cincta (Sphæronæmella). 618.
cinctum (Fusicoccum). 249.
cinctum (Glœosporium). 721.
cinctum (Leptothyrium). 628.
cinctum (Melanconium). 754.
cinerea (Phoma). 117.
cinerea (Sphæropsis). 293.
cinerescens (Phoma). 96.
cinerescens (Septoria). 476.
Cinnamomi (Phoma). 111.
circinans (Asteroma). 206.
circinans (Cryptosporium). 744.
circinans (Diplodia). 371.
circinans (Hendersonia). 431.
circinans (*Leptothyrium*). 712.

circinans (Pirostoma). 653.
circinans (Sphæronæma). 198.
circinans (Vermicularia). 233.
circumscissa (Phyllosticta). 6.
circumscripta (Labrella). 649.
circumscripta (Phoma). 116.
cirratula (Phoma). 115.
Cirsii (Phyllosticta). 44.
Cirsii (Rhabdospora). 592.
Cirsii (Septoria). 551.
Cisti (Phyllosticta). 25.
cistina (Phyllosticta). 25.
Citri (Ascochyta). 390.
Citri (Chætophoma). 200.
Citri (Diplodia). 330
Citri (Discula). 675.
Citri (Phoma). 84.
Citri (Septoria). 477.
Citri (Sphæropsis). 296.
citrinella (Zythia). 614.
citrinula (Næmospora). 747.
Citrulli (Phoma). 149.
chænomelina (Phyllosticta). 5.
chætomioides (Chætodiplodia). 375.
Chætomium (Fusarium). 232.
chætostroma (Amerosporium). 682.
Chailletii (Phragmotrichum). 806.
Chamænerii (Septoria). 513.
chartarum (Phoma). 168.
chartarum (Sacidium). 650.
charticola (Phoma). 168.
charticolum (Camarosporium). 469.
Cheiranthi (Septoria). 521.
Cheiranthorum (Phyllosticta). 38.
Chelidonii (Septoria). 521.
Chenopodii (Phyllosticta). 45.
Chenopodii (Sacidium). 652.
Chenopodii (Septoria). 556.
Chenopodii (Vermicularia). 228.
Cherimoliæ (Ascochyta). 391.
chilensis (Cytospora). 268.
Chimonanthi (Diplodia). 342.
Chionanthi (Diplodia). 347.
Chionanthi (Phyllosticta). 29.
Chionanthi (Septoria). 496.
Chloræ (Ascochyta). 401.
Chloræ (Rabdospora). 591.
chlorinum (Steganosporium). 805.
chlorogæa (Cytospora). 274.
chlorospora (Ascochyta). 386.
chlorostroma (Haplosporella). 323.
chrysosperma (Cytospora). 260.
cladoniscum (Sphæronæma). 190.
clandestina (Diplodia). 333.
clandestina (Phoma). 169.
clandestina (Rabenhorstia). 244.
clavata (Pestalozzia). 796.
clavatum (Sphæronæma). 189.
clavatum (Steganosporium). 806.
clavuligera (Phoma). 69.
clematidea (Diplodia). 368.
clematidina (Ascochyta). 396.
Clematidis (Diplodia). 368.
Clematidis (Phoma). 118.
Clematidis (Septoria). 524.
Clematidis-flammulæ (Septoria). 524
Clematidis-rectæ (Septoria). 524.
clethricola (Phyllosticta). 24.
clethricola (Sphæropsis). 298.
clethrincolum (Sphæronæma). 189.
Clintonii (Peckia). 218.
Clintonii (Sphæropsis). 294.
clitoricarpa (Phoma). 147.
clypeata (Aposphæria). 170.
clypeata (Cytospora). 252.
clypeata (Discosia). 654.
clypeosphærioides (Leptothyrium). 631.
cocciferum (Melanconium). 756
coccinea (Cytospora). 272.
Cocculi (Phyllosticta). 29.
cococarpa (Diplodia). 372.
cocoina (Phoma). 156.
Cocos (Phyllosticta). 59.
cænanthicola (Phoma). 151.
cœnobitica (Cytospora?). 264.
Colchici (Cylindrosporium). 739.
Colchici (Septoria). 570.
Colchici (Vermicularia). 232.
collabascens (Aposphæria). 171.
collabens (Aposphæria). 176.
collabens (Phoma). 131.
collapsa (Stagonospora). 448.
colliculosum (Coniothyrium). 314.
colliculosum (Sphæronæma). 193.
coloratum (Coniothyrium). 315.
coloratum (Myxosporium). 722.
columnare (Sphæronæma). 187.
Coluteæ (Camarosporium). 460.
Coluteæ (Depazea, Phyllosticta). 64.
Coluteæ (Phoma). 67.
comatum (Sphæronæma). 196.
commutata (Hendersonia). 436.
compacta (Botryodiplodia). 379.
compacta (Pestalozzia). 795.

cæmpacta (Vermicularia). 222.
compactum (Coryneum). 776.
compactum (Steganosporium). 804.
complanata (Phlyctæna). 594.
complanata (Phoma). 126.
Compositarum (Camarosporium). 467.
compressa (Botryodiplodia). 379.
compressa (Zythia). 616.
compta (Pestalozzia). 798.
compta (Septoria). 508.
comptum (Asteroma). 205.
concava (Ceuthospora). 280.
concava (*Sphæria, Depazea*). 397.
concentrica (Pestalozzia). 797.
concentrica (Phyllosticta). 21.
concentrica (Vermicularia). 232.
concentricum (Coniothyrium). 317.
concentricum (Glœosporium). 701.
concinnum (Asteroma). 215.
coneglanensis (Phoma). 81.
concolor (Coryneum). 780.
concors (Sphæronæma). 198.
confervoides (Asteroma). 207.
confluens (Botryodiplodia). 377.
confluens (Coryneum). 779.
confluens (Cryptomela). 761.
confluens (Cryptosporium). 761.
confluens (Leptostroma). 640.
confluens (Phoma). 80.
conforme (Sphæronæma). 187.
confusum (Asteroma). 214.
congesta (Botryodiplodia). 378.
congesta (Dothiorella). 241.
congesta (Pestalozzia). 786.
conglobata (Sphæropsis). 299.
conglomeratum (Melanconium). 754.
conglutinata (Excipulina). 689.
conglutinatum (Didymosporium). 765.
congregatum (Amerosporium). 681.
conica (Næmospora). 749.
conica (Rabenhorstia). 243.
conica (Trullula). 733
conicum (Cryptosporium 741.
conicum (Sphæronæma). 194.
conigena (Diplodia). 359.
conigena (Pestalozzia). 792.
conigena (Septoria). 559.
conigenum (Glœosporium). 720.
conigenum (Leptothyrium). 632.
connata (Haplosporella). 324.
conoideum (Coniothyrium). 316.
conorum (Coniothyrium). 314.
conorum (Hendersonia). 430.
conorum (Phoma). 150.
conorum (Sirococcus). 217.
consimilis (Diplodia). 355.
consocia (Septoria). 521.
consociata (Diplodia). 357.
consors (Aposphæria). 175.
consors (Diplodia). 362.
consors (Phoma). 91.
constricta (Hendersonia). 442.
continua (Rhabdospora). 593.
controversa (Phoma). 81.
Convallariæ (Phoma). 161.
Convallariæ (Septoria). 573.
Convolvuli (Septoria). 536.
Cookeanum (Camarosporium). 466.
Cookei (Ceuthospora). 278.
Cookei (Phoma). 80.
Cookei (Phyllosticta). 25.
coprophila (Neottiospora). 217.
coprophilum (Coniothyrium). 319.
Coptidis (Septoria). 526.
coptina (Vermicularia). 231.
corallinum (Asteroma). 215.
Corchori (Diplodia). 339.
Corchori (Næmospora). 747.
cordobensis (Phoma). 128.
Cordobensis (Rhabdospora). 579.
Cordylines (Phoma). 162.
Coriariæ (Leptothyrium). 630.
Coriariæ (Septoria). 380.
corneum (Sphæronæma). 195.
Corni (Asteroma). 207.
Corni (Hendersonia). 421.
Corni (Phoma). 86.
Corni (Phyllosticta). 21.
Corni (Septoria). 492.
Corni-albæ (Coryneum). 774.
Corni-maris (Septoria). 492.
Corni-Suecicæ (Phoma). 86.
cornicola (Ascochyta). 388.
cornicola (Hendersonia). 427.
cornicola (Phyllosticta). 21.
cornicola (Septoria). 492.
cornutum (Sphæronæma). 195.
coronatum (Cryptosporium). 742.
coronatum (Fusicoccum). 250.
coronatum (Sphæronæma). 192.
Coronillæ (Camarosporium). 460.
Coronillæ (Phoma). 67.
corrientina (Phoma). 163.
corrugata (Placosphæria). 246.

corticale (Didymosporium). 765.
corticalis (Sphæropsis). 302.
corticicola (Phoma). 98.
Corticis (Phoma). 76.
corticolum (Crocicreas). 184.
corvinum (Amerosporium). 682.
corylaria (Hendersonia). 429.
corylaria (Phyllosticta). 32.
Coryli (Ascochyta). 393.
Coryli (Diplodia). 353.
Coryli (Glœosporium). 713.
Coryli (Labrella). 648.
Coryli (Leptothyrium). 626.
Coryli (Phyllosticta). 31.
Coryli (Sphæronæma). 192.
corylina (Phoma). 99.
corylina (Septoria). 503.
corylinum (Leptothyrium). 626.
coryneoidea (Hendersonia). 424.
coryneoidea (Pestalozzia). 799.
coryneoides (Cytospora). 277.
Corynocarpi (Septoria). 475.
costatum (Peptostroma). 642.
Cotoneastri (Cytospora). 255.
Cotoneastri (Micropera). 605.
Cowdelli (Diplodiella). 377.
crassicollis (Dendrophoma). 180.
crassipila (Vermicularia). 222.
crastophila (Hendersonia). 438.
crastophila (Phyllosticta). 61.
Cratægi (Actinonema). 408.
Cratægi (Ascochyta). 386.
Cratægi (Diplodia). 340.
Cratægi (Phoma). 78.
Cratægi (Phyllosticta). 6.
Cratægi (Phyllosticta). 6.
Cratægi (Septoria). 486.
cratægicola (Phyllosticta). 6.
crateriformis (Phoma). 112.
crateriformis (Septoria). 496.
Crepini (Phoma). 97.
Crepinianum (Coniothyrium). 315.
crispans (Depazea). 65.
crocea (Næmospora). 747.
croceola (Næmospora). 746.
croceum (Myxosporium). 727.
crocophila (Phoma). 158.
Crucianellæ (Phoma). 138.
Cruciatæ (Septoria). 543.
cruciatum (Camarosporium). 464.
cruciferum (Dinemasporium). 686.
cruenta (Phyllosticta). 58.
crustacea (Diplodiella). 376.
crustacea (Septoria). 500.
crypta (Rynchophoma). 414.
cryptica (Phoma). 69.
Cryptomeriæ (Pestalozzia). 792.
Cryptosporium (Melanconium). 758.
cubense (Actinothyrium). 658.
cubensis (Aschersonia). 620.
Cucurbitacearum (Phoma). 148.
Cucurbitacearum (Phyllosticta). 52.
Cucurbitacearum (Septoria). 527.
Cucurbitæ (Vermicularia). 232.
cucurbitalis (Phoma). 149.
Cucurbitarum (Glæosporium). 720.
culmicola (Hendersonia). 437.
culmicola (Hendersonia). 437.
culmicola (Phoma). 165.
culmigena (Vermicularia). 235.
culmigenum (Didymosporium). 763.
culmifraga (Vermicularia). 234.
culmiseda (Hendersonia). 437.
cupressina (Diplodia). 358.
cupressina (Pestalozzia). 792.
Curreyi (Cytospora). 269.
Curreyi (Macrodiplodia). 374.
Curreyi (Phyllosticta). 60.
Curtisiana (Septoria). 561.
Curtisii (Stagonospora). 451.
curvata (Septoria). 484.
curvatum (Glœosporium). 707.
cuspidata (Ypsilonia). 216.
cyanostroma (Botryodiplodia). 379.
Cycadis (Chætophoma). 201.
Cyclaminis (Septoria). 533.
Cyclantheræ (Septoria). 527.
cyclospora (Phoma). 141.
Cydoniæ (Diplodia). 340.
Cydoniæ (Glœosporium). 705.
Cydoniæ (Hendersonia). 428.
Cydoniæ (Phoma). 75.
Cydoniæ (Phyllosticta). 5.
Cydoniæ (Septoria). 487.
Cydoniæ (Sphæropsis). 294.
cydonicola (Hendersonia). 428.
cydonicola (Septoria). 487.
cylindrica (*Sphæria*). 193.
cylindricum (Sphæronæma). 190.
cylindrocarpa (Stagonospora). 450.
cylindroides (Sirococcus). 217.
cylindrospermum (Glœosporium). 715.
cylindrospora (Phoma). 113.
Cymbalariæ (Depazea, Phyllosticta). 63.

Cymbalariæ (Septoria). 535.
cymbalarina (Septoria). 523.
cymbispora (Phoma). 85.
cynanchica (Rhabdospora). 591.
Cynaræ (Phyllosticta). 45.
Cynodontis (Septoria). 562.
Cynosbati (Cryptostictis). 443.
cyparissa (Diplodia). 356.
Cypripedii (Depazea). 65.
cytisella (Phyllosticta). 10.
cytisellum (Coniothyrium). 308.
Cytisi (Glœosporium). 705.
Cytisi (Leptothyrium). 631.
Cytisi (Phyllosticta). 10.
Cytisi (Septoria). 485.
cytosporoides (Dendrophoma). 180.
cytosporoides (Diplodia). 348.

Dahliæ (Cytospora). 277.
Dahliæ (Phoma). 169.
dalmatica (Phoma). 156.
daphnea (Phoma). 115.
Daphnes (Marsonia). 769.
Daphnes (Septoria). 498.
Darlingtoniæ (Discula). 676.
Dasylirii (Phoma). 159.
Daturæ (Ascochyta). 402.
Daturæ (Septoria). 536.
dealbata (Septoria). 487.
dealbata (Septoria). 502.
Debeauxiana (Phoma), 160.
Debeauxii (Phoma). 146.
Debeauxii (Septoria). 567.
decipiens (Coniothyrium). 309.
decipiens (Coryneum). 779.
decipiens (Cytospora). 263.
decipiens (Dinemasporium). 685.
decipiens (Hendersonia). 421.
dicipiens (Næmospora). 747.
decipiens (Phoma). 126.
decipiens (Rhabdospora). 582.
decipiens (Sphæropsis). 303.
decolorans (Phoma). 123.
decolorata (Pestalozzia) 784.
decorticans (Cytospora). 266.
decorticans (Micropera). 606.
decorticans (Phoma). 148.
decorticans (Sphæronæma). 190.
decorticata (Diplodiella) 376.
deflectens (Diplodia). 345.
deflectens (Discosia). 655.
deformans (Sphæronæma). 196.
deformis (Diplodina) 423.
deformis (Rabenhorstia). 244.
Degueliæ (Neurœcium). 692.
Delastrei (Marsonia) 770.
delicatula (Stagonospora). 448.
delicatulum (Asteroma). 213.
delitescens (Phoma). 105.
Delphinella (Septoria). 525.
Dematium (Vermicularia). 225.
demersa (Sphæropsis). 293.
demissa (Phoma). 118.
dendritica (Phoma). 108.
dendriticum (Asteroma). 205.
denigrata (Phoma). 130.
densipes (Phoma). 83.
densiuscula (Aposphæria) 173.
densiuscula (Ascochyta). 395.
deusta (Phoma). 155.
densum (*Myriocephalum*). 761.
Dentariæ (Phoma). 119.
denudata (Vermicularia). 234.
depazeiformis (Pestalozzia). 801.
depazeoides (Diplodia). 372.
depazeoides (Robillarda). 408.
deplanatum (Cryptosporium). 744.
deplanatum (Myxosporium). 725.
depressa (Phoma). 82.
depressa (Phoma). 99.
depressum (Coryneum) 779.
depressum (Glœosporium). 702.
Deodaræ (Diplodia). 355.
desciscen (Septoria). 530.
Desmazieri (Hendersonia). 440.
Desmazieri (Melanconium). 751.
Desmazieri f. *Phaseoli* (Phoma). 120.
Desmazieri (Septoria). 491.
Desmonci (Phoma) 157.
destructiva (Phyllosticta). 40.
destructiva f. *Hederæ* (Phyllosticta). 20.
destruens (Phyllosticta). 31.
destruens (*Phyllosticta*). 768.
detospora (Septoria). 576.
detrusa (Phoma). 72.
devastatrix (Phoma). 132.
Dianæ (Rhabdospora). 586.
Dianthi (Ascochyta). 398.
Dianthi (Asteroma) 204.
Dianthi (Dinemasporium) 684.
Dianthi (Diplodina) 412.
Dianthi (Phyllosticta). 43.
Dianthi (Septoria). 516.
dianthicola (Septoria). 517.

Diapensiæ (Septoria). 527.
diaphana (Sphæronæmella). 617.
diaporthoides (Rhabdospora). 584.
diatrypa (Cytospora). 258.
diatrype (Diplodia) 367.
diatrypea (Phoma). 86.
Dictamni (Phoma). 137.
Dictamni (Septoria). 514.
didyma (Septoria). 501.
diffluens (Melanconium). 756.
difformis (Aposphæria). 172.
difformis (Cytospora). 265.
difformis (Septoria) 493.
diffusum (*Rhabdosporium*). 762.
Digitalis (Ascochyta). 403.
Digitalis (Phyllosticta). 47.
Digitalis (Septoria). 534.
dilatatum (Asteroma). 210.
Dillemiana (Phoma). 122.
dimera (Septoria). 517.
Dioscoreæ Phyllosticta). 58.
Diospyri (Asteroma). 207.
Diospyri (Centhospora). 280.
Diospyri (Phoma). 90.
Diospyri (Sphæropsis). 298.
Diplodiella (Coniothyrium). 310.
diplodioides (Hendersonia). 422.
diplodioides (Phoma). 81.
Dipsaci (Septoria). 553.
disciforme (Coryneum). 778.
disciforme (*Coryneum*). 778.
disciformis (Phyllosticta). 12.
discoidea (*Discella*). 675.
discoideum (Leptothyrium). 630.
discors (Phyllosticta). 51.
discosiæformis (Phoma). 109.
discosioides (Leptostroma). 641.
discosioides (Phoma). 114.
dispar (Hendersonia). 439.
dispersa (Excipula). 666.
dispersellum (Coniothyrium). 314.
disseminatum (Melanconium). 757.
disseminata (Pestalozzia). 784.
disseminata (Septoria). 488.
dissepta (Phlyctæna) 596.
ditior (Diplodia). 352.
diversa (Diplodiella). 377.
diversispora (Hendersonia). 431.
Dolichi (Septoria) 509.
dolichopus (Phoma). 83.
dolosa (Cytospora). 260.
dolosa (Stagonospora). 455.
domestica (Phoma). 81.
domestica (Phoma). 104.
domingense (Piptostomum). 183.
donacella (Phoma). 165.
donacina (Ascochyta). 406.
donacina (Hendersonia). 438.
donacina (Septoria). 564.
donacina (Sphæropsis). 304.
donacinum (Leptostroma). 642.
Donacis (Asteroma). 215.
Donacis (Hendersonia). 438.
Donacis (Leptostroma). 642.
Donacis (Melanconium). 760.
Donacis (Septoria). 565.
Donckelæri (Phyllosticta). 59.
Doronici (Septoria). 548.
Dothidea (Melanconium). 752.
dothideoides (Haplosporella). 324.
dothideoides (Placosphæria). 246.
Dracænarum (Sphæropsis). 304.
dracænicola (Diplodina). 413.
dracænicolum (Myxosporium). 728.
Dracocephali (Septoria). 540.
Draconis (Phyllosticta). 60.
Drupaccarum (Micropera). 605.
dryadea (Diplodia). 361.
Dryadearum (*Leptothyrium*). 770.
Drymios (Septoria). 485.
dryina (Phoma). 96.
dryina (Septoria). 505.
dryinum (Leptothyrium). 628.
dubia (*Sphæria*). 617.
dubium (Coryneum). 781.
Dubyi (Cytospora). 270.
Dulcamaræ (Diplodia). 366.
Dulcamaræ (Hendersonia). 433.
Dulcamaræ (Phoma). 127.
Dulcamaræ (Phyllosticta). 49.
Dulcamaræ (Septoria). 535.
dulcamarina (Phoma). 127.
duplex (Aschersonia). 620.
Durandiana (Phoma). 140.
durella (Cytospora). 266.
Duriæi (Amerosporium). 681.
Duriæi (Sacidium). 651.
durissimum (Leptostroma). 641.
duriuscula (Cytospora). 266.

Ebuli (Phoma). 132.
Ebuli (Septoria). 543
ebulicola (Phoma). 132.
Ebuli (Phyllosticta). 57.

ebulina (Phoma). 132.
echinatum (Sphærographium). 597.
Edgeworthiæ (Diplodia). 348.
Edgeworthiæ (Phoma). 80.
effiguratum (Coryneum). 781.
effugiens (Hysteromyxa). 622.
effusa (Discula). 676.
effusa (Hendersonia). 439.
effusa (Phoma). 144.
effusa (Septoria). 489.
effusa (Vermicularia). 222.
effusum (Didymosporium). 764.
effusum (Hypodermium). 729.
effusum (Melanconium). 758.
Ehrhartii (Phyllosticta). 46.
Elæagni (Ascochyta). 392.
Elæagni (Diplodia). 348.
Elæagni (Phoma). 114.
elæina (Cytospora). 272.
elæophila (Diplodia). 346.
elæospora (Diplodia). 369.
elæospora (Septoria). 495.
elæonema (Couturea). 442.
Elaterii (Ascochyta). 403.
elegans (Asteroma). 213.
elegans (Cytospora). 267.
elegans (Endobotrya). 470.
elegans (Hendersonia). 436.
elegans (Zythia). 615.
elevatum (Melanconium). 753.
elevatum (Steganosporium). 777.
elliptica (Discosia). 656.
elliptica (Phoma). 137.
ellipticum (Melanconium). 754.
Ellisii (Ascochyta). 389.
Ellisii (Diplodina). 412.
Ellisii (Myxosporium). 724.
Ellisii (Sphæropsis). 300.
elongata (Phoma). 158.
emaculata (Septoria). 510.
Embryopteridis (Diplodia). 361.
Emeri (Ascochyta). 385.
Emeri (Septoria). 485.
eminens (Hendersonia). 429.
Empetri (Excipula). 668.
Endiviæ (Septoria). 551.
endogena (Phoma). 152.
endoleuca (Phoma). 98.
endophlæa (Phoma). 96.
endophylla (Cytospora). 277.
endorhodia (Phoma). 124.
enteroleuca (Phoma). 75.
entomogena (Phoma). 151.
Ephedræ (Rhabdospora). 585.
Ephedræ (Vermicularia). 223.
ephedrina (Rhabdospora). 585.
epicalamia (Stagonospora). 455.
epicarpii (Glœosporium). 720.
epicarpii (Septoria). 559.
epicæcidium (Sphæronæma). 198.
epicocos (Diplodia). 372.
epidermidis (Excipula). 668.
Epigejos (Septoria). 563.
epiglæum (Sphæronæma). 197.
epileuca (Aposphæria). 169.
epileuca (Cytospora). 273.
epileuca (Hendersonia). 441.
Epilobii (Asteroma). 210.
Epilobii (Phoma). 134.
Epilobii (Septoria). 513.
Epimedii (Phyllosticta). 39.
epimyces (Coniothyrium). 319.
epimyces (Sphæronæma). 197.
Epipactidis (Septoria). 575.
epiphylla (Phoma). 107.
epiphylla (Vermicularia). 225.
epiphyllum (Coryneum). 781.
epiphyllum (Cryptosporium). 743.
epitricha (Phoma). 168.
epixyla (Cytospora). 265.
epixyla (Vermicularia). 223.
Equiseti (Amerosporium). 682.
Equiseti (Asteroma). 215.
Equiseti (Phoma). 168.
Ericæ (Phoma). 85.
Equiseti (Septoria). 576.
ericeti (Cytospora). 273.
Erdingeri (Depazea). 63.
erigerontea (Septoria). 547.
Erigerontis (Septoria). 547.
Eriobotryæ (Diplodia). 362.
Eriobotryæ (Phyllosticta). 5.
eriophora (Phoma). 154.
errabunda (Phoma). 128.
eructans (Diplodia). 353.
erumpens (Colletotrichum). 735.
erumpens (Didymosporium). 764.
erumpens (Dothiorella). 242.
erumpens (Excipula). 666.
erumpens (Phoma). 117.
Ervi (Phyllosticta). 43.
Eryngii (Phoma). 126.
Eryngii (Septoria). 532.
Eryngii (Vermicularia). 227.

Erysimi (Phyllosticta). 39.
Erysimi (Septoria). 520.
erysiphoides (Phyllosticta). 28.
erythræa (Næmospora). 747.
Erythrææ (Phyllosticta). 56.
erythrella (Phoma). 100.
Erythrinæ (Pyrenochæta). 221.
Erythronii (Ascochyta). 405.
Erythronii (Septoria). 573.
erythrostoma (Septoria). 496.
Escalloniæ (Phoma). 90.
Eucalypti (Coniothyrium). 78.
Eucalypti (Cryptosporium). 741.
Eucalypti (Diplodia). 343.
Eucalypti (Harknessia). 320.
Eucalypti (Hendersonia). 425.
Eucalypti (Pestalozzia). 785.
Eucalypti (Phoma). 78.
Eucalypti (Phyllosticta). 9.
Eucalypti (Sphæronæma). 187.
eucalyptica (Phoma). 78.
eucalyptidea (Phoma). 109.
Euclcæ (Pilidium). 689.
Eugeniæ (Pestalozzia). 785.
eumorpha (Dendrophoma). 182.
eumorphum (Fusicoccum). 249.
Eupatorii (Septoria). 546.
eupatorina (Phyllosticta). 45.
Euphorbiæ (Asteroma). 212.
Euphorbiæ (Diplodia). 369.
Euphorbiæ (Phoma). 141.
Euphorbiæ (Septoria). 515.
Euphorbii (Dothiorella). 242.
eupyrena (Phoma). 127.
eupyrena (Rhabdospora). 589.
eupyrena (Vermicularia). 227.
europæa (Hendersonia). 424.
eurotioides (Coniothyrium). 312.
eurotioides (Muricularia). 218.
eustaga (Phoma). 103.
eustoma (Hendersonia). 436.
evonymella (Phyllosticta). 15.
Evonymi (Diplodia). 360.
Evonymi (Diplodia). 333.
Evonymi (Pestalozzia). 788.
Evonymi (Phyllosticta). 15.
Evonymi (Phoma). 71.
Evonymi (Septoria). 482.
Evonymi (Sphæria). 15.
Evonymi (Stagonospora). 447.
Evonymi-japonicæ (Septoria). 482.
examinans (Septoria). 483.
excavata (Dothiorella). 237.
Excæcariæ (Septoria). 500.
excelsa (Phoma). 74.
exiguum (Colletotrichum). 735.
eximia (Hendersonia). 441.
exosporiodes (Pyrenochæta). 221.
exotica (Septoria). 533.
expansa (Septoria). 514.
exigua (Hendersonia). 426.
exigua (Phoma). 134.
exserta (Phoma). 131.
exsiccans (Glœosporium). 713.
extensa (Cytospora). 273.
extensa (Diplodia). 331.
exul (Phoma). 89.
exulata (Septomyxa). 767.

Fabæ (Phyllosticta). 42.
fabæformis (Sphæropsis). 296.
Fagi (Excipula). 670.
Fagi (Glœosporium). 713.
Fagi (Papularia). 753.
Fagi (Scolecosporium). 782.
Fagi (Septoria). 503.
faginea (Diplodia). 354.
faginea (Libertella). 744.
faginea (Psilospora). 680.
falcatum (Cryptosporium). 743.
fallax (Phoma). 156.
fallax (Phyllosticta). 13.
fallax (Sphæropsis). 301.
Falx (Rhabdospora). 582.
familiaris (Phoma). 104.
Farfaræ (Phyllosticta). 45.
Farfaræ (Septoria). 545.
Farlowianum (Fusicoccum). 250.
Farnesiana (Diplodia). 336.
fasciculatum (Sphæronæma). 190.
fenestratum (Steganosporium). 804.
ferox (Pyrenochæta). 220.
ferruginea (Cytospora). 266.
ferruginea (Phoma). 143.
ferrugineum (Cryptosporium). 741.
ferruginosa (Dothichiza). 672.
fertilis (Cytospora). 261.
Feuilleauboisiana (Ascochyta). 399.
fibricola (Ascochyta). 401.
fibricola (Aposphæria). 176.
fibricola (Diplodiella). 376.
fibriseda (Aposphæria). 173.
fibriseda (Diplodiella). 376.
fibriseda (Rhabdospora). 586.

fibriseda (Sphæropsis). 295.
fibrosum (Fusicoccum). 247.
Ficariæ (Cylindrosporium). 737.
Ficariæ (Glæosporium). 700.
Ficariæ (Septoria). 522.
ficariæcola (Septoria). 522.
ficicola (Cytospora). 258.
ficicola (Placosphæria). 246.
Fiedleri (Hendersonia). 421.
Filaginis (Phoma). 143.
filamentosa (Phoma). 159.
filicina (Leptostromella). 660.
filicina (Vermicularia). 235.
filicinum (Leptostroma). 645.
Filipendulæ (Cylindrosporium). 738.
Filipendulæ (Phyllosticta). 41.
filipendulina (Phyllosticta). 41.
filispora (Septoria). 569.
Filum (Darluca). 410.
fimeti (Dinemasporium). 686.
fimicola (Phoma). 169.
findens (Hendersonia). 425.
fissa (Diplodia). 338.
fissa (Hendersonia). 424.
fibrisequa (Aposphæria). 172.
Flammulæ (Septoria). 524.
flava (Næmospora). 748.
flavidula (Phyllosticta). 24.
flavo-virens (Cytospora). 268.
flavo-viridis (Sphæronæmella). 618.
flexuosa (Rhabdospora). 582.
floccosa (Cytospora). 254.
fœda (Chætophoma). 200.
fœdans (Coniothyrium). 308.
fœdans (Leptothyrium). 634.
fœdans (Pestalozzia). 792.
fœdata (Phoma). 104.
Fœniculi (Diplodia). 365.
fœniculina (Diplodia). 364.
fœniculina (Phoma). 125.
foliicola (Cytospora). 275.
foliicola (Hendersonia). 430.
foliicola (Tremella). 699.
foliicolum (Coryneum). 780.
foliicolum (Podisoma). 430.
foliorum (Hendersonia). 427.
folliculorum (Ascochyta). 404.
folliculorum (Phoma). 155.
foraminulatum (Leptothyrium). 630.
formosa (Prosthemiella). 803.
Forsythiæ (Phyllosticta). 27.
fovcolaris (Phoma). 72.
Fourcroyæ (Hendersonia). 435.
Fourcroyæ (Phoma). 160.
fusco-zonata (Phyllosticta). 8.
Fragariæ (Ascochyta). 399.
Fragariæ (Glœosporium). 705.
Fragariæ (Septoria). 511.
fragaricola (Phyllosticta). 40.
fragilis (Phoma). 147.
fragilissimum (Leptothyrium). 636.
Frangulæ (Diplodia). 334.
Frangulæ (Phyllosticta). 15.
Frangulæ (Phyllosticta). 14.
Frangulæ (Septoria). 481.
fraxinea (Dothiorella). 236.
fraxinea (Phoma). 81.
Fraxini (Botryodiplodia). 378.
Fraxini (Piggotia). 637.
Fraxini (Septoglœum). 802.
Fraxini (Septoria). 495.
Fraxini (Sphærographium). 598.
Fraxini (Trullula). 732.
fraxinicola (Phyllosticta). 21.
Friesii (Cytospora). 269.
Friesii (Mastomyces). 456.
frigidum (Asteroma). 204.
frigidum (Glœosporium). 704.
frondicola (Depazea). 712.
frondicola (Sphæria). 502.
fructigena (Hendersonia). 428.
fructigena (Septoria). 558.
fructigenum (Glœosporium). 718.
fructigenum (Leptostroma). 642.
Fuckelianum (Sphæronæma). 189.
Fuckelii (Asteroma). 202.
Fuckelii (Asteroma). 210.
Fuckelii (Coniothyrium). 306.
Fuckelii (Cytospora). 263.
Fuckelii (Glœosporium). 713.
Fuckelii (Hendersonia). 437.
Fuckelii (Phoma). 69.
Fuckelii (Septoria). 545.
Fuckelii (Sphæronæma). 193.
Fuchsiæ (Pestalozzia). 790.
Fuchsiæ (Septoria). 513.
fugax (Asteroma). 215.
fugax (Cytospora). 263.
fuliginosum (Pilidium). 689.
fullonum (Septoria). 553.
fulvella (Diplodia). 352.
fulvescens (Septoria). 510.
funerea (Pestalozzia). 791.
fumosa (Stilbospora). 773.

fusarioides (Coryneum). 779.
fusarioides (Hendersonia). 426.
fusarioides (Melanostroma). 728.
Fusarium (Cytosporina). 603.
fusca (Chætophoma). 200.
fusca (Libertella). 744.
fusca (Phoma). 103.
fusca (Phoma). 142.
fuscata (Phoma). 123.
fuscella (Septoria). 536.
fuscidula (Aposphæria). 173.
fuscidulum (Coniothyrium). 307.
fusco-atrum (Coniothyrium). 311.
fusco-maculans (Aposphæria). 174.
fuscum (Myxosporium). 725.
fusicoccoides (Rhabdospora). 583.
fusiforme (Melanconium). 750.
fusigera (Phoma). 77.
fusisperma (Næmospora). 749.
fusispora (Excipularia). 689.

Galegæ (Dothiorella). 242.
Galegæ (Phoma). 121.
galbulorum (Phoma). 151.
Galeopsidis (Phyllosticta). 50.
Galeopsidis (Septoria). 539.
galericulatum (Fusicoccum). 250.
Galii (Diplodina). 412.
Galii (Excipula). 669.
Galii (Placosphæria). 245.
Galiorum (Camarosporium). 468.
Galiorum (Septoria). 543.
Galinsogæ (Septoria) 550.
Gallæ (Sphæropsis). 300.
Gallarum (Excipula). 670.
Gallarum (Glœosporium). 720.
Gallarum (Phyllosticta). 10.
gallicolum (Asteroma). 213.
Garryæ (Ascochyta). 392.
Garryæ (Phyllosticta). 24.
Garryæ (Septoria). 500.
Gei (Asteroma). 209.
Gei (Cylindrosporium). 738.
Gei (Septoria). 510.
gelatinosum (Dinemasporium). 685.
geniculata (Phoma). 102.
Genistæ (Pestalozzia). 785.
genistalis (Darluca). 410.
Gentianæ (Asteroma). 212.
Gentianæ (Phoma). 120.
Gentianæ (Septoria). 541.
gentianæcola (Depazea). 62.
geographicum (Asteroma). 202.
geographicum (Xyloma). 628.
Georginæ (Chætophoma). 200.
Georginæ (Diplodia). 367.
Geranii (Dilophospora). 601.
Geranii (Septoria). 514.
Geranii (Sphæronæma). 196.
Geranii (Vermicularia). 226.
Gerardiæ (Vermicularia). 230.
germanica (Cytospora). 262.
germanica (Phyllosticta). 24.
giganteum (Crocicreas). 183.
gigaspora (Stagonospora). 453.
Gillesii (Phyllosticta). 57.
Gilletiana (Septoria). 503.
Glabræ (Hendersonia). 425.
Gladioli (Hendersonia). 435.
Gladioli (Phoma). 159.
Gladioli (Septoria). 574.
glandicola (Ceuthospora). 278.
glandicola (Diplodia). 361.
glandicola (Excipula). 668.
glandicola (Phoma). 151.
glandicola (Robillarda). 793.
glandulosa (Dothiorella). 240.
glandulosa (Phoma). 117.
glauca (Depazea, Phyllosticta). 64.
Glechomæ (Leptostroma). 647.
Glechomæ (Phyllosticta). 50.
Gleditschiæ (Diplodia). 335.
Gleditschiæ (Hendersonia). 420.
Gleditschiæ (Phoma). 66.
Gleditschiæ (Sacidium). 651.
Gleditschiæ (Sphæropsis). 147.
gleditschiæcola (Sphæropsis). 292.
globigera (Cytospora). 255.
globosa (Excipula). 666.
globosum (Melanconium). 750.
Globulariæ (Phyllosticta). 56.
Globulariæ (Septoria). 537.
globuliferum (Coniothyrium). 308.
globulosa (Diplodia). 357.
globulosa (Phyllosticta). 34.
glœosporioides (Colletotrichum). 735.
glœosporioides (Fusicoccum). 249.
glœosporioides (Phoma). 116.
glomerata (Aposphæria). 175.
glomeratum (Sphæronæma). 191.
glomerosa (Phoma). 111.
glomerulatum (Coniothyrium). 314.
glomerulatum (Leptothyrium). 633.
gloriosa (Phoma). 159.

glumarum (Septoria). 561.
glutinatum (Melanconium). 757.
Glycines (Phyllosticta). 11.
Glycyrrhizæ (Cylindrosporium). 738.
Gomphocarpi (Sacidium). 651.
Gomphrenæ (Phyllosticta). 53.
Gordoniæ (Cytospora). 274.
goritiensis (Phyllosticta). 22.
Gossypii (Phoma). 121.
Gossypii (Phlyctæna). 595.
gossypina (Diplodia). 366.
gossypina (Septoria). 516.
gracilis (Septoria). 560.
gracillima (Septoria). 566.
graminea (Diplodina). 413.
graminea (Labrella). 649.
graminella (Phoma). 166.
graminella (Stagonospora). 454.
gramineum (Crocicreas). 183.
graminis (Actinothyrium). 658.
Graminis (Asteroma). 215.
graminis (Cryptosporium). 760.
Graminis (Dilophospora). 600.
Graminis (Phoma). 167.
graminis (Placosphæria). 246.
graminicola (Ascochyta). 407.
graminicola (Hendersonia). 438.
graminicola (Vermicularia). 235.
graminum (Dinemasporium). 683.
graminum (Septoria). 565.
graminum f. *Sclerochloæ (Septoria).* 561.
grammita (Discosia). 756.
Granati (Phoma). 78.
grande (Melanconium). 754.
grandis (Vermicularia). 223.
graphidioides (Melanconium). 757.
graphoides (Asteroma). 209.
Gratiolæ (Septoria). 534.
gregaria (Dothiorella). 236.
gregaria (Excipula). 667.
grisea (Cytispora). 726.
griseum (Melanconium). 750.
griseum (Myxosporium). 726.
Grossulariæ (Diplodia). 344.
Grossulariæ (Phoma). 88.
Grossulariæ (Phyllosticta). 17.
Grossulariæ (Septoria). 491.
Grossulariæ (Vermicularia). 223.
Grylli (Septoria). 564.
Guepini (Actinonema). 409.
Guepini (Pestalozzia). 794.
Guepini (Sporonema). 678.
gummiparum (Coryneum). 774.
guttifera (Cytospora). 264.
guttulatum (Fusicoccum). 250.
Guyonianum (Steganosporium). 806.
Gymnadeniæ (Septoria). 575.

hæmatocycla (Phyllosticta). 61.
Halymi (Coniothyrium). 316.
Hamamelidis (Glœosporium). 700.
hamata (Libertella). 746.
hamata (Rhabdospora). 581.
Hapalocystis (Fusicoccum). 249.
hapalocystis (Phoma). 94.
Hardenbergiæ (Phoma). 102.
Harknessi (Diplodia). 363.
Haslinszkyi (Camarosporium). 468.
Haussknechtiæ (Asteroma). 203.
hawaiense (Glœosporium). 708.
Haynaldi (Phyllosticta). 25.
Haynaldianum (Glœosporium). 700.
hedcomina (Rhabdospora). 590.
Hederæ (Coniothyrium). 307.
Hederæ (Diplodia). 344.
Hederæ (Melanconium). 851.
Hederæ (Phoma). 87.
Hederæ (Septoria). 490.
Hederæ (Sphæria). 360.
Hederæ (Sphæronæma). 617.
hederæcolum (Myriocephalum). 761.
hedericola (Diplodia). 360.
hedericola (Phyllosticta). 20.
hedericola (Sphæropsis). 295.
hedericolum (Thyrsidium). 761.
hedysarella (Phoma). 121.
Hedysari (Asteroma). 203.
Hedysari (Phoma). 121.
Hedysari (Phoma). 144.
Helianthemi (Phyllosticta). 38.
helianthicola (Rhabdospora). 592.
Helicis (Glœosporium). 707.
Helicis (Phoma). 87.
helicomyxa (Sphæronæma). 197.
Heliconiæ (Stagonospora). 450.
helleborella (Phyllosticta). 37.
Hellebori (Ascochyta). 396.
Hellebori (Septoria). 524.
helleborina (Rhabdospora). 588.
Helvellæ (Sphæronæmella). 618.
helvola (Phoma). 116.
hemisphærica (Aposphæria). 170.
Hendersoni (Cytospora). 252.
Hendersoni (Glœosporium). 702.

Hennebergii (Phoma). 167.
Henriquesiana (Hendersonia). 427.
Henriquesii (Coniothyrium). 318.
Henriquesii (Phyllosticta). 28.
Henriquesii (Septoria). 520.
Henriquesii (Sphæropsis). 296.
Hepaticæ (Glœosporium). 700.
Hepaticæ (Septoria). 522.
Heraclei (Hendersonia). 432.
Heraclei (Labrella). 648.
Heraclei (Septoria). 528
herbarum (Coniothyrium). 317.
herbarum (Coniothyrium). 318.
herbarum (Diplodia). 370.
herbarum (Leptostroma). 587.
herbarum (Leptostroma). 645.
herbarum (Phoma). 133.
herbarum (Rhabdospora). 593.
herbarum (Stagonospora). 447.
herbarum (Vermicularia). 226.
herbicola (Diplodina). 411.
herbicola (Pestalozzia). 795.
Hesperidearum (Ascochyta). 390.
Hesperidearum (Glœosporium). 702.
Hesperidearum (Phoma). 12.
Hesperidearum (Phyllosticta). 12.
Hesperidearum (Septoria). 477.
hesperidica (Diplodia). 331.
hesperidica (Haplosporella). 323.
hesperidica (Libertella). 745.
heteracantha (Cytosporina). 603.
heterochroa (Septoria). 538.
heteroclita (Diplodia). 362.
Heteromeles (Phoma). 110.
Heteromeles (Phyllosticta). 37.
heteromorpha (Diplodia). 337.
heteromorpha (Pestalozzia). 794.
heteromorpha (Phoma). 84.
heteromorphum (Sphæronæma). 195.
heterospermum (Coryneum). 779.
heterospora (Trullula). 733.
Heuffelii (Phoma). 132.
hians (Glœosporium). 701.
Hibisci (Septoria). 476.
hibiscina (Diplodia). 330.
hiemale (Sphæronæma). 677.
Hippocastani (Septoria). 479.
Hippoglossi (Phoma). 162.
Hippophaës (Cytospora). 274.
Hippophaës (Septoria). 498.
hirta (Chætodiplodia) 375.
hirta (Hendersonia). 422.
hirta (Pyrenochæta). 221.
hirtella (Chætodiplodia). 375.
hispidula (Cornularia). 599.
hispidulum (Dinemasporium). 685.
hispidulum (Sphæronæma). 196.
Hoffmanni (Asterosporium). 782.
Holci (Septoria). 562.
Holoschœni (Leptothyrium). 636.
Holoschœni (Septoria). 568.
hormococcoides (Dendrophoma). 181.
horrida (Cytospora). 259.
hortense (Coniothyrium). 315.
hortensis (Rhabdospora). 587.
hortensis (Stagonospora). 446.
hortorum (Phyllosticta). 49.
Hosackiæ (Phoma). 121.
Hosackiæ (Septoria). 508.
Hoyæ (Septoria). 542.
Hualtatæ (Phyllosticta). 44.
Humuli (Diplodia). 365.
Humuli (Phyllosticta). 53.
Humuli (Septoria). 557.
hyalina (Phoma). 87.
hyalinum (Melanconium). 724.
hyalopus (Hendersonia). 425.
hyalosperma (Cytospora). 258.
hyalospora (Diplodia). 412.
hyalospora (Septoria). 488.
hyalospora (Stagonospora). 447.
Hydrocotyles (Depazea). 62.
Hydrocotyles (Septoria). 531.
hydrophila (Dendrophoma). 182.
hydrophila (Phyllosticta). 56.
hydrophila (Septoria). 570.
Hyperici (Ascochyta). 403.
Hyperici (Asteroma). 203.
Hyperici (Leptostroma). 647.
Hyperici (Septoria). 515.
hypericina (Diplodia). 366.
hypericina (Pestalozzia). 795.
hypodermia (Vermicularia). 228.
hypodermium (Cryptosporium). 742.
hypodermium (Myxosporium). 724.
hypodermoides (Leptostroma). 646.
hypospila (Myxormia). 734.
hypoxyloidea (Botryodiplodia). 379.
hysterella (Aposphæria). 170.
hysterella (Phoma). 102.
hysteriiformis (Cytospora). 269.
hysteriiformis (Pestalozzia). 793.
hysteriiformis (Phoma). 142.
hysterioidea (Phoma). 167.

hysterioides (Cryptosporium). 742.
hysterioides (Cryptostictis). 443.
hysterioides (Leptostromella). 659.
hysterioides (Phlyctæn.). 595.
hysterioides (Stagonospora). 455.
hysterioides (Trullula). 732.
Hysteropsis (Phoma). 142.
hystricinum (Sphærographium). 597.

Jaborosæ (Septoria). 490.
Jacobææ (Phyllosticta). 44.
Janiphæ (Phoma). 141.
japonica (Phoma). 78.
japonica (Phyllosticta). 25.
japonica (Septoria). 497.
Jasiones (Phoma). 146.
Jasmini (Coniothyrium). 309.
Jasmini (Diplodia). 346.
Jasmini (Phyllosticta). 22.
Jasmini (Septoria). 494.
jasminica (Phyllosticta). 22.
ichthyospora (Hendersonia). 432.
Jefferisii (Pestalozzia). 798.
jenisseica (Septoria). 501.
Jenissensis (Ascochyta). 405.
Jenissensis (Septoria). 524.
ilicella (Phoma). 106.
ilicifolia (Chætophoma). 199.
ilicina (Cryptostictis). 443.
ilicina (Cytospora). 274.
ilicina (Phyllosticta). 35
ilicinum (Leptothyrium). 629.
Ilicis (Diplodia). 360.
Ilicis (Pestalozzia). 788.
Ilicis (Phoma). 106.
ilicicola (Diplodia). 333.
ilicicola (Phoma). 106.
ilicifoliæ (Septoria). 483.
imberbe (Cryptosporium). 744.
immaculatum (Asteroma). 214.
immersa (Phoma). 122.
Impatientis (Depazea). 62.
Impatientis (Excipula). 670.
Impatientis (Leptostroma). 647.
imperialis (Diplodia). 348.
imperialis (Phoma). 92.
imperialis (Rhabdospora). 583.
importata (Phoma). 127.
impressum (Asteroma). 211.
impressum (Coryneum). 775.
inæqualis (Phoma). 67.
inæqualis (Rhabdospora). 580.
incarcerata (Phoma). 77.
incarnata (Cytospora). 263.
incarnatum (Myxosporium). 722.
Incarvilleæ (Diplodia). 348.
incerta (Cytospora). 257.
incomptum (Asteroma). 213.
incondita (Septoria). 479.
incondita var. quercicola (Septoria). 505.
inconspicua (Aposphæria). 174.
inconspicua (Phoma). 136.
inconspicua (Septoria). 554.
increscens (Septoria). 533.
incrustans (Camarosporium). 463.
incrustans (Coniothyrium). 313.
incrustans (Diplodia). 351.
incrustans (Phoma). 119.
incurvum (Amerosporium). 681.
Indigoferæ (Phoma). 121.
iners (Phoma). 84.
inflatum (Asteroma). 204.
infuscata (Phyllosticta). 50.
innumera (Phyllosticta). 62.
innumerabilis (Phoma). 108.
innumerabilis (Stagonospora). 446.
innumerosa (Stagonospora). 451.
inophila (Aposphæria). 175.
inquinans (Diplodia). 346.
inquinans (Pestalozzia). 784.
insculpta (Phoma). 81.
insidens (Pestalozzia). 793.
isidiosa (Stagonospora). 452.
insitivum (Coniothyrium). 306.
insulana (Phyllosticta). 21.
insularis (Septoria). 491.
integerrima (Excipula). 669.
intermedia (Cytospora). 264.
intermedia (Phoma). 131.
intermedium (Coryneum). 776.
intermedium (Gloeosporium). 702.
intermedium (Melanconium). 753.
intermixta (Stagonospora). 454.
interogativa (Diplodia). 332.
interrupta (Rhabdospora). 583.
inulina (Phoma). 123.
inundatorum (Leptostroma). 645.
involucri (Vermicularia). 223.
Inulæ (Septoria). 547.
Intybi (Septoria). 551.
Iohnstonii (Phlyctæna). 595.
Ipomææarum (Vermicularia). 230.
Jowana (Phoma). 143.
Iresines (Septoria). 556.

irregulare (Steganosporium). 804.
irregularis (Phoma). 142.
irregularis (Septoria). 484.
Iridis (Leptostroma). 644.
Ischæmi (Ascochyta). 407.
Ischæmi (Diplodia). 374.
Ischæmi (Stagonospora). 454.
Isopyri (Sphæropsis). 302.
italichroma (Patellina). 623.
juglandicola (Botryodiplodia). 377.
juglandicola (Cytosporina). 603.
juglandina (Cytospora). 267.
juglandina (Dendrophoma). 181.
juglandina (Phoma). 96.
juglandina (Phyllosticta). 31.
juglandinum (Melanconium). 753.
Juglandis (Cytospora). 267.
Juglandis (Diplodia). 352
Juglandis (Marsonia) 768.
Juglandis (Melanconium). 753.
Juglandis (Phoma). 152.
Juglandis (Phyllosticta). 31.
Juglandis (Rhabdospora). 584.
Julia (Discosia). 654.
Julia (Pyllosticta). 48.
Julibrissin (Diplodia). 336.
Juncacearum (Leptostroma). 644.
Juncaginearum (Asteroma). 214.
junceum (Sacidium). 651.
Junci (Phoma). 164.
Junci (Septoria) 569.
juncicola (Hendersonia). 438.
juncigena (Godroniella). 665.
juncina (Leptostromella). 660.
junciseda (Stagonospora). 452.
Juniperi (Diplodia). 355.
Juniperi (Dothiorella). 241.
Juniperi (Phoma). 101.
Juniperi β. minor (Podisoma). 430.
juniperinum (Coryneum). 781.
Ixerbæ (Sacidium). 651.
K. *Vide post* Y.
labens (Aposphæria). 173.
Labes (Asteroma). 767.
labilis (Phoma). 122.
Labruscæ (Phyllosticta) 20.
Laburni (Ascochyta). 395.
Laburni (Camarosporium). 460.
Laburni (Phoma). 68.
Laburni (Septoria). 485.
laburnicola (Phyllosticta). 10.
lacera (Heteropatella). 670.
Lachastreana (Septoria). 515.
Lactucæ (Phoma). 121.
Lactucæ (Septoria). 551.
lactucicola (Septoria). 552.
lacustris (Phoma). 164.
lacustris (Septoria). 567.
lacustris (Stagonospora). 452.
læticolor (Glœosporium). 718.
lagenaria (Hendersonia). 433.
lagenaria (Phoma). 148.
lagenarium (Glœosporium). 719.
lagenicola (Phoma). 149.
lageniforme (Sphæronæma). 196.
Lagerstrœmiæ (Diplodia). 343.
Lagerstrœmiæ (Phoma). 93.
Lambottiana (Stagonospora). 448.
lamiicola (Septoria). 538.
Lamii (Phyllosticta). 49.
Lamii (Septoria). 538.
Lamiorum (Ascochyta). 403.
Lanceola (Myxosporium). 726.
lanceolata (Phoma). 162.
Landeghemiæ (Phoma). 71.
Lantanæ (Ascochyta). 381.
Lantanæ (Camarosporium). 466.
Lantanæ (Diplodia). 346.
lanuginosa (Cyphina). 623.
Laporteæ (Glœosporium). 711.
Lappæ (Phlyctæna). 595.
Lappæ (Phyllosticta). 44.
Lapparum (Septoria). 551.
laricinum (Leptostroma). 641.
Laricis (Phoma). 169.
Lasserpitii (Phyllosticta). 45.
lata (Diplodia). 336.
latebrarum (Asteroma). 212.
lateritia (Næmospora). 749.
latitans (Dothiorella). 241.
lathyrina (Phoma). 147.
lathyrina (Phyllosticta). 42.
laurella (Phoma). 83.
laurella (Phyllosticta). 18.
Laureolæ (Asteroma). 205.
Laureolæ (Phyllosticta). 26.
Lauri (Ceuthospora). 279.
Lauri (Phyllosticta). 17.
laurina (Diplodia). 340.
laurina (Diplodia). 348.
laurina (Pestalozzia). 800.
laurina (Phoma). 83.
Lauro-cerasi (Cytospora). 276.
Lauro-Cerasi (Diplodia). 362.

Lauro-Cerasi (Pestalozzia). 786.
Lauro-cerasi (Phoma). 107.
Lauro-cerasi (Phyllosticta) 4.
Lauro-cerasi (Septoria). 488.
lauro-cerasina (Septoria). 488.
Lavandulæ (Septoria). 537.
Lavateræ (Phoma). 122.
laxa (Cytospora). 277.
laxum (*Myriocephalum*). 762.
Lebiseyi (Phoma). 91.
Lebretoniana (Rhabdospora). 579.
Leburtonii (Phoma). 155.
Lecythea (Sphæropsis). 302.
Leersiæ (Septoria). 561.
Leguminis (Coniothyrium). 309.
Leguminis-Cytisi (Diplodia). 358.
Leguminis (Glæosporium). 717.
Leguminis β. Pisi (Septoria). 397.
Leguminum (Ascochyta). 385.
Leguminum (Discula) 677.
Leguminum (Glœosporium). 718.
Leguminum (Leptothyrium). 632.
Leguminum (Phoma). 147.
Leguminum (Septoria). 559.
Leguminum (Trullula). 734.
leucophthalma (Catinula). 673.
lentiformis (Dothiorella). 240.
lentiformis (Rhabdospora). 582.
Lentisci (Dichlæna). 620.
Lepidii (Septoria). 519.
lepidiicola (Septoria). 519.
leptidea (Phoma). 111.
leptidula (Phoma). 137.
leptostromoides (Glœosporium). 715.
leptothyrioides (Phoma). 144.
Lesourdeanum (Fusicoccum). 249.
Letendreana (Hendersonia). 433.
Letendreana (Septoria). 500.
Letendrei (Phoma). 146.
Leucanthemi (Phyllosticta). 44.
Leucanthemi (Septoria). 549.
leucoconia (Zythia). 615.
leuconyxa (Cytosporina). 604.
leucophthalma (Cytospora). 255.
leucosperma (Cytospora). 268.
leucospila (Phoma). 107.
leucostigma (Phoma). 105.
leucostoma (Cytospora). 254.
leucostoma (Eriospora). 600.
leucostoma (Phoma). 75.
leucostomum (Fusicoccum). 249.
leucostroma (Næmospora). 749.
leucotrichum (Amerosporium). 682.
Leveillei (Septoria). 484.
levigata (Excipula). 669.
Levistici (Septoria). 531.
Leycesteriæ (Septoria). 492.
Libertella (Cytospora). 277.
Libertiana (Phoma). 73.
Libertianum (Leptothyrium). 629.
librincola (Aposphæria). 173.
lichenicola (Hendersonia). 439.
lichenoides v. *scabiosicola* (*Sphæria*). 553.
lichenophilum (Sphæronæma). 197.
ligniaria (Pseudodiplodia). 621.
lignicola (Diplodiella). 377.
lignicola (Discula). 676.
lignicola (Hendersonia). 442.
lignicola (Pestalozzia). 794
lignicola (Pyrenochæta). 219.
lignicolum (Scridium). 783.
lignifraga (Libertella). 746.
lignorum (Coniothyrium). 315.
lignorum (Dendrophoma). 181.
Ligustri (Ascochyta). 387.
Ligustri (Diplodia). 347.
Ligustri (Phyllosticta). 21.
Ligustri (Septoria) 497.
ligustrina (Phoma). 98.
ligustrina (Phoma). 116.
ligustrina (Phyllosticta). 22.
ligustrinum (Glœosporium). 704.
Lilacis (Diplodia). 346.
Liliacearum (Phoma). 158.
Liliacearum (Vermicularia). 233.
Liliaceorum (Vermicularia). 232.
liliicola (Phyllosticta). 58.
Liliorum (Excipula). 669.
limbalis (Ascochyta). 393.
limbalis (Phyllosticta). 24.
Limnanthemi (Septoria). 541.
Limoniæ (Phoma). 83.
Limonis (Phoma). 83.
Limonum (Septoria). 477.
Linariæ (Diplodia). 365.
Linariæ (Phyllosticta). 47.
Lindemuthianum (Glœosporium). 717.
linearc (Leptostroma). 646.
linearis (Phoma). 124.
linearis (Phoma). 166.
linearis (Sphæropsis) 300.
lineatum (Leptostroma). 646.
Lineola (Colletotrichum). 736.
lineolata (Phoma). 150.

lineolata (Septoria). 567.
lineolatum (Glœosporium). 721.
Lingam (Phoma). 119.
Linnææ (Depazea). 63.
Linocieræ (Phyllosticta). 29.
lintearium (Sphæronæma). 198.
Liquidambaris (Sciridium). 783.
Liquidambaris (Septoria). 501.
Lirella (Hendersonia). 432.
lirella (Phoma). 139.
lirellata (Phoma). 118.
Liriodendri (Asteroma). 203.
Liriodendri (Ceuthospora). 279.
Liriodendri (Dothiorella). 236.
Liriodendri (Phoma). 154.
Liriodendri (Phyllosticta). 30.
liriodendrica (Phyllosticta). 30.
lirelliformis (Phoma). 87.
lirelliformis (Phoma). 118.
lirelloides (Phoma). 72.
litigiosum (Leptothyrium). 636.
littoralis (Septoria). 565.
littorea (Septoria). 542.
Lituus (Rhabdospora). 586.
Lobeliæ (Phoma). 132.
Lobeliæ (Septoria). 532.
loculata (Botryodiplodia). 380.
longipes (Harknessia). 320.
longipes (Hendersonia). 423.
longipes (Phoma). 95.
longiseta (Pestalozzia). 787.
longispora (Diplodia). 354.
longispora (Phoma). 79.
longissima (Phoma). 125.
longissima (Rhabdospora). 588.
longissimum (Melanconium). 751.
Loniceræ (Asteroma). 205.
Loniceræ (Cryptostictis). 444.
Loniceræ (Diplodia). 345.
Liniceræ (Hendersonia). 423.
Loniceræ (Libertella). 745.
Loniceræ (Marsonia). 769.
Loniceræ (Phoma). 70.
Loniceræ (Phyllosticta). 18.
Loniceræ (Rhabdospora). 582.
Loniceræ (Sphærographium). 597.
lonicericolum (Leptostroma). 647.
Lophanthi (Septoria). 538.
lophioides (Stagonospora). 454.
Lophiostoma (Stagonospora). 449.
lophiostomoides (Phoma). 167.
Lorentzii (Ascochyta). 390.
loricata (Hendersonia). 440.
lucida (Phoma). 117.
ludibunda (Cytosporina). 601.
Ludwigiæ (Septoria). 512.
Lunariæ (Leptothyrium). 634.
Lupini (Cryptosporium). 743.
Lupini (Diplodia). 368.
Lupini (Hendersonia). 431.
Lupini (Septoria). 508.
Lupuli (Hendersonia). 434.
lusitanica (Phoma). 124.
lutetiana (Phyllosticta). 56.
Luzulæ (Leptostroma). 644.
Luzulæ (Pyrenochæta). 221.
Luzulæ (Stagonospora). 451.
Lychnidis (Depazea). 62.
Lychnidis (Glœosporium). 707.
Lychnidis (Leptothyrium). 633.
Lychnidis (Septoria). 517.
lyciella (Diplodia). 367.
Lycii (Camarosporium). 467.
Lycii (Diplodia). 367.
Lycii (Phoma). 88.
Lycoctoni (Depazea). 63.
Lycoctoni (Septoria). 525.
Lycopersici (Septoria). 535.
Lycopi (Septoria). 540.
Lysimachiæ (Septoria). 533.
Lythri (Depazea). 63.
lythrina (Septoria). 512.

macilenta (Cytospora). 258.
Macluræ (Diplodia). 350.
Macluræ (Sphæropsis). 299.
macrobasis (Cytospora). 261.
macrochæta (Vermicularia). 225.
macropoda (Pestalozzia). 800.
macropoda (Septoria). 561.
macropora (Septoria). 526.
macropus (Glæosporium). 703.
macropus (Phoma). 90.
macropus (Stagonospora). 453.
macropyrena (Phoma). 141.
macrosperma (Aposphæria). 174.
macrosperma (Discula). 675.
macrosperma (Phoma). 73.
macrosperma (Stagonospora). 453.
macrosperma (Stilbospora). 772.
macrosperma (*Stilbospora*). 772.
macrospermum (Coryneum). 776.
macrospermum (Didymosporium). 765.
macrospermum (Sporidesmium). 772.

macrospora (Cornularia). 599.
macrospora (Dothiorella). 239.
macrospora (Hendersonia). 430.
macrospora (Libertella). 746.
macrospora (Pestalozzia). 796.
macrospora (Stagonospora). 450.
macrosporum (Camarosporium). 461.
macrosporum (Coryneum). 782.
macrosporum (Myxosporium). 727.
macrostoma (Phoma). 87.
macrostoma (Diplodia). 350.
macrothecium (Leptothyrium). 633.
macrothecia (Phoma). 158.
macrotrichum (Amerosporium). 681.
maculans (Ascochyta). 389.
maculans (Cryptosporium). 742.
maculans (Fusarium). 577.
maculans (Hendersonia). 427.
maculans (Phoma). 103.
maculans (Phoma). 116.
maculans (Rhabdospora). 584.
maculans (Septogloeum). 803.
maculans (Vermicularia). 228.
maculare (Asteroma). 209.
macularis (Cytospora). 256.
macularis (Phoma). 111.
macularis (Septoria). 507.
maculata (Diplodia). 363.
maculata (Phoma). 157.
maculatum (Entomosporium). 657.
maculicola (Discosia). 654.
maculicolum (Coryneum). 777.
maculicolum (Leptothyrium). 628.
maculifera (Phoma). 111.
maculiformis (Phyllosticta). 35.
maculosa (Septoria). 513.
Mœrtensii (Sphæropsis). 293.
magna (Hendersonia). 431.
magnata (Hendersonia). 441.
Magnoliæ (Actinothyrium). 658.
Magnoliæ (Ascochyta). 384.
Magnoliæ (Diplodia). 363.
Magnoliæ (Discula) 674.
Magnoliæ (Hendersonia). 426.
Magnoliæ (Phyllosticta). 25.
Magnoliæ (Protostegia). 691.
Magnoliæ (Rhabdospora). 580.
Magnoliæ (Septoria). 475.
Magnoliæ (Sphæronæma). 198.
magnum (Melanconium). 753.
Mahaleb (Phyllosticta). 5.
Mahoniæ (Diplodia). 361.
Mahoniæ (Phoma). 117.
Mahoniæ (Phyllosticta). 25.
Mahoniæ (Septoria). 475.
Mahoniana (Phoma). 117.
Malbranchei (Phoma). 99.
Mali (Asteroma). 206.
Mali (Hendersonia). 428.
Mali (Phoma). 75.
Mali (Sphæropsis). 293.
malmedyensis (Libertiella). 617.
Malorum (Diplodia). 363.
Malorum (Phoma). 152.
Malorum (Sphæropsis). 294.
Malpighiæ (Phoma). 116.
Malvaccarum (Phoma). 122.
Malvæ (Sphæropsis). 303.
malvicola (Ascochyta). 399.
Maianthemi (Septoria). 573.
majuscula (Excipula). 669.
mamillana (Diplodia). 344.
mamillana (Hendersonia). 420.
mamillaris (Phoma). 66.
Mamma (Diplodia). 347.
mangaloriea (Pestalozzia). 790.
Mangiferæ (Catinula). 673.
Mantegazziana (Phoma). 104.
marginalis (Phyllosticta). 12.
Martyniæ (Phyllosticta). 47.
Marchandianum (Myxosporium). 725.
Marchantiæ (Ascochyta). 407.
Marchantiæ (Phyllosticta). 61.
marginata (Sphæropsis). 304.
marginatum (Leptostroma). 643.
marginatum (Seiridium). 783.
Mariæ (Cryptostictis). 444.
Mariæ (Hendersonia). 422.
Mariæ (Phoma). 70.
marmorata (Phyllosticta). 36.
Marrubii (Phoma). 129.
Marsdeniæ (Diplodia). 365.
Martensii (Epidochium). 751.
martialis (Hendersonia). 434.
Martianoffiana (Ascochyta). 394.
Martianoffiana (Septoria). 526.
Martianoffianum (Asteroma). 203.
Martianoffianum (Gloeosporium). 699.
Martineziæ (Septoria). 575.
Martini (Marsonia). 769.
Massalongi (Phoma). 145.
Massariana (Cytospora). 253.
maura (Diplodia). 341.
Mauritiæ (Sacidium). 652.

Maydis (Diplodia). 373.
Maydis (Septoria). 566.
Medicaginis (Leptothyrium). 634.
Medicaginis (Phyllosticta). 42.
Medicaginis (Septoria). 508.
mediella (Aposphæria). 170.
Medusula (Asteroma). 211.
megalospora (Diplodia). 359.
megasperma (Phoma). 86.
megaspora (Septoria). 572.
melæna (Diplodia). 349.
melæna v. *Lauri* (Diplodia). 348.
melæna (Phoma). 135.
melaleuca (Catinula). 673.
melaleuca (Phoma). 73.
Melandrii (Septoria). 517.
melanophæa (Excipula). 667.
melanoplaca (Phyllosticta). 58.
Melanophthalmi (Septoria). 509.
melanoplaca (Phyllosticta). 638.
melanoxanthum (Melanconium). 758.
melasperma (Cytospora). 264.
melasporum (Coniothyrium). 319.
Melianthi (Septoria). 480.
Melicæ (Septoria). 560.
Melicæ (Vermicularia). 234.
Meliloti (Depazea). 63.
Meliloti (Marsonia). 771.
Mellitidis (Septoria). 539.
Melissæ (Septoria). 539.
mellea (Aschersonia). 620.
membranacea (Staurochæta). 219.
mendax (Cytosporella). 252.
mendax (Phoma). 68.
Menispermi (Phoma). 136.
Menispermi (Sphæropsis). 303.
Menispermi (Septoria). 555.
menispora (Septoria). 569.
Menthæ (Septoria). 538.
menthicola (Septoria). 539.
Menyanthes (Septoria). 532.
Mercurialis (Phyllosticta). 53.
Mercurialis (Septoria). 557.
Mercurialis (Vermicularia). 231.
Mercurialis (Zythia). 615.
merizophila (Dendrophoma). 180.
Mespili (Asteroma). 205.
Mespili (Entomosporium). 657.
Mespili (Phyllosticta). 5.
Mespili (Septoria). 487.
Mespili (Stagonospora). 446.
Metrosideri (Cytospora). 276.
metulæformè (Sphæronæma). 188.
metulispora (Ascochyta). 386.
Mezerei (Leptothyrium). 498.
mexicana (Ephelis). 691.
Micheneri (Thyrsidium). 762.
micrococcoides (Phyllosticta). 12.
micromegala (Phoma). 73.
Microperæ (Sphærographium). 598.
microphylla (Hendersonia). 432.
micropuncta (Phyllosticta). 18.
micropunctum (Leptostroma). 643.
microscopica (Cornularia). 600.
microscopica (Diplodia). 367.
microscopica (Hendersonia). 437.
microscopica (Phoma). 159.
microscopica (Stagonospora). 446.
microscopicum (Coniothyrium). 311.
microscopicum (Sphæronæma). 197.
microsora (Pestalozzia). 800.
microsora (Septoria). 541.
microsperma (Dendrophoma). 182.
microsperma (Discula). 675.
microsperma (Phoma). 142.
microsperma (Septoria). 506.
microsperma (Stilbospora). 755.
microspermum (Colletotrichum). 736.
microspermum (Cylindrosporium). 738.
microspermum (Melanconium). 751.
microspora (Cytospora). 253.
microspora (Diplodia). 346.
microspora (Discula). 674.
microspora (Næmospora). 747.
microspora (Pestalozzia). 789.
microspora (Stagonospora). 447.
microsporella (Diplodia). 357.
microsporum (Amerosporium). 681.
microsporum (Dinemasporium). 684.
microsporum (Sacidium). 652.
microsticta (Hendersonia). 439.
microsticta (Phyllosticta). 23.
microstictoides (Coryneum). 774.
microstictum (Coryneum). 775.
microstoma (Cytospora). 254.
militaris (Stilbospora). 773.
Millardetianum (Myxosporium). 725.
millegrana (Diplodiella). 376.
milliaria (Cytosporina). 602.
millepunctata (Cytosporina). 602.
millepunctata (Phoma). 105.
Milii-multiflori (Sphæria). 439.
miniata (Myxosporella). 730.
minima (Ceuthospora). 279.

minima (Discosia). 655.
minima (Phoma). 81.
minima (Phoma). 115.
minima (Staurochæta). 219.
minimum (Dinemasporium). 684.
minuscula (Diplodia). 371.
minussensis (Phyllosticta). 24.
minuta (Cytospora). 272.
minuta (Discosia). 655.
minuta (Vermicularia). 228.
minutella (Phoma). 121.
minutissima (Hendersonia). 437.
minutissima (Phoma). 144.
minutissimum (Didymosporium). 764.
minutissimum (Sphæronæma). 186.
minutula (Aposphæria). 176.
minutula (Phoma). 70.
minutulum (Camarosporium). 469.
minutulum (Myxosporium). 726.
minutum (Melanostroma). 728.
mirabilis (Septoria). 576.
Mirbelii (Phoma). 105.
mixta (Phoma). 90.
mixtum (Coniothyrium). 313.
modonia (Stilbospora). 772.
Molleriana (Ascochyta) 403.
Molleriana (Diplodia). 351.
Molleriana (Harknessia). 320.
Molleriana (Phoma). 110.
Molleriana (Phyllosticta). 54
Mollerianum (Gloœsporium). 716.
mollis (Aposphæria). 172.
monocarpa (Ceuthospora). 279.
monochæta (Pestalozzia). 797.
monochætoidea (Pestalozzia). 798.
Monotospora (Melanconium). 750.
monorhincha (Pestalozzia). 798.
Montagnei (Coniothyrium). 310
Montagnei (Hendersonia). 450.
Montagnei (Rhabdospora). 584.
Moorei (Pestalozzia). 795.
montana (Phoma). 130.
morbosa (Hendersonula). 445.
Mori (Aposphæria). 174.
Mori (Camarosporium). 464.
Mori (Cryptosporium). 743.
Mori (Diplodia). 351.
Mori (Pestalozzia). 793.
Mori (Phleospora). 577.
moricola (Diplodia). 351.
moricola (Phleospora). 578.
moricola (Phoma). 95.
Mororum (Phoma). 95.
morphæa (Phoma). 154.
Mortolensis (Septoria). 490.
Mougeotiana (Sphæropsis). 302.
Mougeotii (Cytospora). 270.
Mougeotii (Gloœsporium). 710.
Mougeotii (Micula). 604.
Mougeotii (Næmospora). 687.
Mougeotii (Sphæronæmella). 617.
Mougeotii (Septoria). 553.
mucifera (Aposphæria). 175.
mucipara (Phoma). 109.
mucosa (Phoma). 148.
Müggenburgii (Rhabdospora). 581.
Mulgedii (Septoria). 545.
Mülleri (Phoma). 76.
multiforme (Camarosporium). 462.
multiplex (Dothiorella). 237.
multipunctata (Phoma). 130.
multiseptata (Stilbospora). 773.
multivalve (Phacidium. Xyloma). 277.
muralis (Phoma). 139.
muricatum (Steganosporium). 806.
muricospora (Roumeguériella). 616.
murina (Septoria). 574.
Musæ (Chætophoma). 201.
Musæ (Myxosporium). 728.
Musæ (Phoma). 163.
Musæ (Stagonospora). 450.
Musarum (Phoma). 163.
mutabilis (Dichomera). 471.
mutica (Phoma). 98.
mutila (Diplodia). 353.
myelocola (Phoma). 84.
myelostromatica (Rhabdospora). 582.
Mygindæ (Diplodia). 361.
Mygindæ (Gloœsporium). 704.
Myosotidis (Cylindrosporium). 738.
myriadea (Dendrophoma). 179.
Myricæ (Pestalozzia). 785.
Myricæ (Phyllosticta). 9.
myriocarpa (Cytosporina). 602.
myriocarpa (Phoma). 117.
myriocarpum (Coniothyrium). 315.
myriospora (Chætophoma). 200.
myriospora (Diplodia). 373.
myrtinum (Leptothyrium). 629.
myxosporioides (Diplodia). 352.

Nabali (Septoria). 547.
Napelli (Septoria). 525.
Napi (Phyllosticta). 38.

Napoleoncæ (Phyllosticta). 36.
narvisiana (Septoria). 508.
natalensis (Levieuxia). 321.
Natricis (Sacidium). 652.
Nebula (Rhabdospora). 589.
nebulosa (Phoma). 135.
nebulosa (Phyllosticta). 43.
nebulosa (Rhabdospora). 589.
Neesii (Cryptosporium). 740.
neglecta (Pestalozzia). 788
neglecta (Phoma). 161.
neglecta (Stagonospora). 455.
Negriana (Phoma). 110.
Negundinis (Coryneum). 775.
Negundinis (Diplodia, *Sphæria*). 331.
Negundinis (Phyllosticta). 13.
Neilliæ (Marsonia). 769.
nemoralis (Phyllosticta). 16.
nephrospermum (Melanconium). 751.
Nerii (Diplodia). 347.
Nerii (Haplosporella). 324.
Nerii (Phoma). 84.
Nerii (Phyllosticta). 26.
Nerii (Septoria). 497.
neriicola (Septoria). 497.
nervisequa (Phoma). 108.
nervisequa (Phyllosticta). 51.
nervisequia (Excipula). 668.
nervisequum (Glœosporium). 711.
nervisequum (Hypodermium). 729.
Nesææ (Phyllosticta). 57.
nesodes (Septoria). 531.
nicæænsis (Rhabdospora). 587.
Nicotianæ (Ascochyta). 401.
nidulans (Phoma). 80.
Niesslii (Phoma). 119.
nigerrima (Septoria). 487.
nigrella (Rhabdospora). 588.
nigricans (Diplodia). 337.
nigricans (Næmospora). 748.
nigripes (Sphæronæma). 187.
nigro-maculans (Septoria). 559.
nigrum (Cryptosporium). 743.
niphostoma (Septoria). 475.
niteus (Phoma). 151.
nitida (Agyriella). 731.
nitida (*Discosia*). 654.
nitida (Labrella). 649.
nitida (Placosphæria). 246.
nitida (Phoma). 167.
nitidula (Excipula). 668.
nitidula (Phoma). 128.
nitidula (Phyllosticta). 19.
nitidula (Septoria). 481.
nitidula (Trullula). 732.
nitidulum (Asteroma). 205.
nitidulum (Leptostroma). 644.
nitidum (Myxosporium). 723.
nitidum (*Phlyctidium*). 654.
nitidum (Sphæronæma). 187.
Nitrariæ (Phoma). 86.
nivea (Cytospora). 260.
niveum (Cylindrosporium). 737.
nobile (Glœosporium). 710.
nobilis (Hendersonia). 432.
nobilis (Phoma). 112.
nobilis (Phyllosticta). 18.
nobilis (Pyrenochæta). 219.
nodorum (Septoria). 561.
Nolitangere (Septoria). 514.
Notarisianum (Coryneum). 778.
Notarisii (Hyaloceras). 783.
notha (Hendersonia). 430.
notha (Phoma). 94.
notha (Rhabdospora). 583.
Novæ-Hollandiæ (Sphæropsis). 295.
noveboracense (Cryptosporium). 742.
novissima (Blennoria). 730.
Nubecula (Rhabdospora). 592.
Nuttallii (Septoglœum). 802.
nuptialis (Phyllosticta). 9.
Nymphææ (Ascochyta). 397.
Nyssæ (Cryptosporium). 741.
Nyssæ (Phyllosticta). 36.
nyssocarpa (Phoma). 152.

obducens (Ascochyta). 399.
ob'onga (*Collosisperma*). 755.
oblonga (Chætomella). 322.
oblonga (Phoma). 99.
oblonga (Vermicularia). 233.
oblongatum (Melanconium). 755.
oblongum (Melanconium). 752.
oblongum (Thyrsidium). 762.
obovoideum (Coniothyrium). 306.
obsidionis (Septoria). 513.
obscura (Discula). 675.
obscurata (Septoria). 492.
obscurum (Asteroma). 207.
obscurum (Steganosporium). 805.
obsoleta (Diplodia). 366.
obturata (Phoma). 85.
obturatum (Sporonema). 678.
obtusa (Hendersonia). 423.

obtusa (Hypocenia). 321.
obtusa (Phoma). 126.
occidentalis (Phoma). 66.
occulta (Cytospora). 258.
occulta (Hendersonia). 421.
occulta (Phoma). 150.
occulta (Phoma). 164.
ocellata (Cytospora). 263.
ocellata (Phoma). 109.
ocellata (Phyllosticta). 12.
ocellata (Septoria). 505.
ochra (Phoma). 122.
ochraceo-maculans (Septoria). 476.
ochroleuca (Septoria). 504.
oculata (Phoma). 139.
Œnotheræ (Phoma). 134.
Œnotheræ (Septoria). 513.
œnotherella (Phoma). 134.
Oleæ (Ceuthospora). 278.
Oleæ (Cytospora). 275.
Oleæ (Melanconium). 752.
Oleæ (Phoma). 112.
Oleæ (Sphæronæma). 188.
Oleæ-chrysophyllæ (Septoria). 496.
Oleæ β. Phillyreæ (Sphæria). 496.
oleaginea (Septoria). 558
Oleandri (Ascochyta). 392.
Oleandri (Diplodia). 360.
Oleandri (Rhabdospora). 583.
oleandrina (Septoria). 497.
oleracea (Phoma). 135.
oligosporum (Coryneum). 779.
olivacea (Ceuthospora). 280.
olivacea (Discula). 676.
olivacea (Septoria). 508.
olivaceum (Clisosporium). 316.
olivaceum (Coniothyrium). 305.
olivaceum (Melanconium). 757.
Olivæ (Septoria). 496.
Olivarum (Phoma). 156.
olivascens (Trullula). 731.
Oncidii (Phoma). 163.
oncostoma (Phoma). 69.
Onobrychidis (Placosphæria). 245.
oospermum (Coniothyrium). 314.
oospora (Diplodiella). 376.
oosporum (Melanconium). 758.
opaca (Haplosporella). 324.
opegraphoides (Cryptosporium). 741.
ophioides (Septoria). 565.
ophiospora (Melophia). 659.
Ophites (Phoma). 89.
oppilata (Phoma). 98.
oppilata (Stagonospora). 449.
Opuli (Phoma). 87.
Opuli (Phyllosticta). 16.
Opuntiæ (Diplodia). 344.
Opuntiæ (Phyllosticta). 26.
orbiculare (Glœosporium). 720.
Orchidearum (Phoma). 163.
Orchidearum (Septoria). 575.
Oreodaphnes (Ascochyta). 392.
oreades (Camarosporium). 466.
oreophila (Septoria). 523.
Oreoselini (Septoria). 528.
Oreoselini (Trullula). 734.
orientalis (Dendrophoma). 178.
Origani (Rhabdospora). 591.
ornatum (Polynema). 687.
ornellum (Fusicoccum). 247.
Orni (Ascochyta). 386.
Orni (Glœosporium). 707.
Orni (Septoria). 495.
ornithogalea (Septoria). 571.
Ornithogali (Phoma). 158
Ornithogali (Septoria). 571.
orobella (Phyllosticta). 42.
Orobi (Ascochyta). 398.
Orobi (Asteroma). 212.
orobicola (Septoria). 509.
orobina (Phyllosticta). 42.
orobina (Septoria). 509.
Orontii (Phyllosticta). 59.
orthospora (Cytospora). 272.
orthospora (Phlyctæna). 594.
orthospora (Septoria). 483.
orthospora (Vermicularia). 227.
Oryzæ (Ascochyta). 406.
Oryzæ (Septoria). 562.
Oryzæ (Sphæropsis). 303.
ossis (Sphæronæma). 198.
osteospora (Phyllosticta). 34.
ostiolata (Discosia). 655.
Ostryæ (Glœosporium). 713.
Ostryæ (Septoria). 503.
Osyridis (Pestalozzia). 790.
Oudemansii (Septoria). 563.
ovalis (Sphæropsis). 292.
ovata (Asteromella). 182.
ovata (Callosisperma). 753.
ovata (Stilbospora). 803.
ovata (Vermicularia). 229.
ovata (Vermicularia). 231.
ovatum (Melanconium). 753.

ovatum (Melanconium). 758.
ovatum (Myxosporium). 727.
ovoideum (Melanconium). 758.
ovoideum (Sphæronæma). 193.
Oxyacanthæ (Cytospora). 255.
Oxyacanthæ (Phleospora). 578.
Oxalidis (Phyllosticta). 39.
Oxyanthi (Pestalozzia). 790.
oxyspermum (Cryptosporium). 741.
oxyspora (Aschersonia). 620.
oxyspora (Septoria). 565.
oxyspora (Sphæronæmella). 618.
oxystoma (Aposphæria). 176.

pachybasium (Glœosporium). 710.
Padi (Actinonema). 409.
Padi (Asteroma). 201.
Padi (Camarosporium). 462.
Padi (Cylindrosporium). 738.
Padi (Diplodia). 340.
Padi (Dothichiza). 671.
padina (Micropera). 605.
padina (Phoma). 74.
Paconiæ (Asteroma). 209.
Pæoniæ (Phyllosticta). 37.
Pæoniæ (Septoria). 526.
palina (Phoma). 97.
Paliuri (Ascochyta). 388.
Paliuri (Diplodia). 334.
pallens (Phoma). 80.
pallens (Septoria). 489.
pallida (Libertella). 746.
pallida (Stagonopsis). 621.
pallido-fuscum (Coniothyrium). 314.
pallidum (Melanconium). 752.
pallidum (Sphæronæma). 186.
Pallor (Ascochyta). 399.
Palmarum (Coniothyrium). 318.
Palmarum (Depazea, Phyllosticta). 65.
Palmarum (Melanconium). 758.
Palmarum (Pestalozzia). 796.
Palmarum (Phoma). 157.
palmicola (Cytospora). 276.
palmicola (Diplodia). 372.
paludosa (Stagonospora). 453.
palustris (Heteropatella). 671.
palustris (Septoria). 540.
pamparum (Septoria). 554.
pampeana (Phoma). 127.
Pandani (Melanconium). 759.
Pandani (Phoma). 157.
Papayæ (Diplodia). 350.
papillata (Trullula). 733.
papillatum (Camarosporium). 465.
Papillula (Aposphæria). 176.
Papularia (Melanconium). 753.
parabolicum (Sphæronæma). 193.
paradisiaca (Sphæropsis). 304.
paradoxa (Cytospora). 265.
paradoxum (Coniothyrium). 313.
paradoxum (Glœosporium). 707.
parasitans (Sphæropsis). 305.
parasitica (Chiastospora). 621.
parasiticum (Melanconium). 760.
parca (Phoma). 100.
paridicola (Depazea). 65.
Paridis (Septoria). 574.
Parietariæ (Coniothyrium). 317.
parietinum (Mycogala). 185.
Parkinsoniæ (Sphæropsis). 294.
Parmeliæ (Diplodina). 413.
partitum (Camarosporium). 465.
parva (Cytospora). 271.
Passeriniana (Diplodia). 371.
Passeriniana (Dothichiza). 671.
Passerinii (Discosia). 656.
Passerinii (Leptothyrium). 631.
Passerinii (Rhabdospora). 583.
Passerinii (Septoria). 560.
Passifloræ (Ascochyta). 400.
Passifloræ (Leptothyrium). 633.
Passifloræ (Phoma). 156.
Pastinacæ (Septoria). 528.
pastinacina (Septoria). 528.
patagonica (Ascochyta). 396.
patagonicum (Camarosporium). 469.
Patella (Dinemasporium). 684.
Patella (Glœosporium). 705.
patellaris (Diplodia). 340.
Passifloræ (Diplodia). 369.
patelliformis (Excipula). 670.
pauciseptata (Hendersonia). 419.
pauciseptata f. *Rhois* (Hendersonia). 425.
Paulowniæ (Ascochyta). 390.
Paulowniæ (Phoma). 92.
Paulowniæ (Phyllosticta). 27.
Paulowniæ (Septoria). 497.
paupercula (Diplodia). 345.
Paviæ (Phyllosticta). 4.
Peckiana (Discula). 675.
Peckiana (Phoma). 80.
Peckii (Hendersonia). 422.
Peckii (Septoria). 567.
Peckii (Sphæropsis). 293.

Peckii (Vermicularia). 232.
pedunculariis (Phoma). 70.
pellica (Diplodia). 373.
pelliculosa (Phoma). 186.
Peltigeræ (Phyllosticta). 62.
Peltigeræ (Zythia). 617.
penicillata (Pyrenochæta). 220.
penicillatum (Sphæronæma). 194.
pensylvanica (Sphæropsis). 298.
Pentastemonis (Septoria). 534.
Penzigi (Camarosporium). 468.
Penzigi (Chætophoma). 200.
peradenycum (Coniothyrium). 319.
peregrina (Cytosporina). 603.
peregrina (Rhabdospora)' 591.
peregrina (Sphæria). 584.
perexigua (Phoma). 123.
perexiguum (Glœosporium). 713.
perforans (Ascochyta). 406.
perforans (Phoma). 188.
pericarpii (Sphæropsis). 299.
Periclymeni (Ascochyta). 388.
Periclymeni (Leptothyrium). 626.
periglandis (Diplodina). 413.
peritheciatum (Melanconium). 757.
perpusilla (Diplodia). 365.
perpusillum (Leptothyrium). 631.
persica (Rhabdospora). 581.
Persicæ (Cornularia). 599.
Persicæ (Cytospora). 256.
Persicæ (Diplodia). 341.
Persicæ (Phoma). 74.
Persicæ (Phyllosticta). 8.
persicaria (Phoma). 74.
persicina (Phoma). 74.
persicina (Septomyxa). 766.
personata (Cytospora). 267.
personata (Rabenhorstia). 244.
perularum (Septoria). 487.
peruviana (Hendersonia). 434.
pestalozzioides (Coryneum)' 780.
Petersii (Aposphæria). 176.
petiolaris (Diplodia). 364.
petiolata (Phoma). 113.
petiolicola (Excipula). 667.
petiolina (Phoma). 113.
petiolina (Rhabdospora). 593.
petiolorum (Diplodia). 359.
petiolorum (Leptothyrium). 629.
petiolorum (Phoma). 103.
petiolorum (Vermicularia). 223.
Petroselini (Septoria). 530.
Petuniæ (Ascochyta). 401.
Petuniæ (Phyllosticta). 47.
Peylii (Cytospora). 277.
pezizoideum (Didymosporium). 705.
pezizoideum (Pleococcum). 679.
pezizoides (Fusarium). 707.
pezizoides (Pestalozzia). 789.
Pezizula (Dinemasporium). 685.
phacidiella (Phoma) 106.
Phacelïæ (Camarosporium). 468.
phacidioides (Ceuthospora). 277.
phacidioides (Coniothyrium). 310.
phacidioides (Glœosporium). 701.
phacidioides (Pestalozzia). 801.
phacidioides (Phoma). 106.
phacidioides (Septoria). 499.
phacidioides (Sporonema). 677.
Phægopteridis (Glœosporium). 721.
phæosorum (Glœosporium). 715.
phæotrichum (Amerosporium). 681.
Pharbitis (Phyllosticta). 50.
Phaseoli (Cylindrosporium). 738.
Phaseoli (Phoma). 120.
phascolina (Phyllosticta). 41.
Phaseolorum (Ascochyta). 398.
Phaseolorum (Phyllosticta). 41.
Phlogis (Phoma). 129.
Phlogis (Septoria). 533.
Phlomidis (Phoma). 129.
Philadelphi (Ascochyta). 386.
Phillipsiana (Phoma). 98.
Phillyreæ (Depazea). 22.
Phillyreæ (Phyllosticta). 23.
Phillyreæ (Septoria). 496.
phillyricola (Phyllosticta). 23.
phillyrina (Phyllosticta). 23.
phlyctænoides (Septoria). 594.
Phœnicis (Pestalozzia). 796.
phomatella (Phlyctæna). 594.
phomatella (Sphæropsis). 298.
phomatoides (Rhabdospora). 579.
phomiformis (Phyllosticta). 35.
phomoides (Ascochyta). 400.
phomoides (Glœosporium). 718.
Phormii (Phoma). 160.
Photiniæ (Diplodia). 362.
Photiniæ (Pestalozzia) 787.
Photiniæ (Phyllosticta). 7.
Photiniæ (Septoria). 489.
photinica (Phyllosticta). 6.
photinicola (Phyllosticta). 7.
Phoradendri (Diplodia). 356.

Phragmitis (Hendersonia). 437.
Phragmitis (Leptostroma) 643.
Phragmitis (Septoria). 564.
phyllachoroides (Ascochyta). 406.
phyllodii (Diplodia). 358.
phyllodiorum (Diplodia). 358.
phyllogena (Cytospora). 275.
phyllogeneta (Phoma). 117.
Phyllostictæ (Diplodia). 364.
phyllostictea (Phoma). 130.
phyllostictoidea (Vermicularia). 229.
phyllostictoides (Phoma). 147.
phyllostictoides (Septoria). 490.
Physalcos (Phyllosticta). 48.
physalina (Ascochyta). 401.
Phyteumatis (Septoria). 544.
Phyteumatum (Septoria). 544.
Phytolaccæ (Phoma). 139.
Phytolaccæ (Phyllosticta). 57.
picastrum (Camarosporium). 465.
picea (Phoma). 140.
Piceæ (Phoma). 101.
piceana (Phoma). 74.
piceata (Phoma). 107.
piceum (Leptostroma) 640.
pictum (Leptothyrium). 626.
Pileæ (Septoria). 557.
piliferum (Sphæronæma). 192.
pinastrella (Phoma). 101.
Pinastri (Cytospora). 275.
Pinastri (Dothiorella). 241.
Pinastri (Leptostroma). 641.
Pinastri (Micropera). 606.
Pinastri (Phoma). 101.
Pinastri (Phoma). 150.
Pinastri (Sphæropsis). 300.
pinea (Aposphæria). 169.
pinea (Diplodia). 359.
pinea (Rhabdospora) 585.
Pingræ (Septoria). 546.
Pini (Camarosporium). 465.
Pini (Cytospora). 270.
Pini (Cytospora). 269.
Pini (Fusicoccum). 248.
Pini (Hendersonia). 426.
Pini (Leptothyrium). 627.
Pini (Melanconium). 756.
Pini (Phoma). 101.
Pini (Phoma). 73.
Pini (Rhabdospora). 585.
Pini (Septoria). 506.
pinicola (Cytospora). 270.
pinicola (Phoma). 100.
pinicola (Stilbospora). 773.
pinnarum (Diplodia). 371.
Pinorum (Leptostroma). 641.
piptarthra (*Hendersonia*). 450.
Pipulæ (Septoria). 499.
Piri (Asteroma). 206.
Piri (Hendersonia). 419.
Piri (Myxosporium). 722.
Piri (Septoria). 487.
piricola (Ascochyta). 386.
piricola (Cytospora). 276.
piricola (Hendersonia). 428.
piricola (Phyllosticta). 7.
piricola (Septoria). 487.
piriforme (Melanconium). 755.
piriforme (Sphæronæma). 191.
piriforme (Steganosporium). 803.
piriformis (Diplodia). 341.
piriformis (Marsonia). 767.
pirina (Phyllosticta). 7.
Pirolæ (Depazea). 64.
Pirorum (Phyllosticta). 7.
Pisi (Ascochyta). 397.
Pisi (Phyllosticta). 43.
Pisi (Septoria). 509.
pisicola (Ascochyta). 397.
pisiformis (Cytosporella). 251.
Pistaciæ (Septoria). 483.
pistillare (Sphæronæma). 194.
pithya (Dothiorella). 241.
pithya (Phoma) 73.
pithyophila (Cytospora). 270.
pithyophila (Dothiorella). 238.
pithyophila (Phoma). 101.
pithyophila (Rhabdospora). 585.
pithyum (Camarosporium). 467.
pithyum (Fusicoccum). 248.
pithyum (Sphæronæma). 192.
Pittospori Diplodia). 348.
Pittospori (Phoma). 73.
Placenta (Aschersonia). 620.
Placenta (Dothiorella). 239.
plagiochæta (Pestalozzia). 799.
planiuscula (Phoma). 99.
plantaginea (Septoria). 554.
Plantaginis (Ascochyta). 403.
Plantaginis (Phyllosticta). 53.
Plantaginis (Septoria). 554.
Platani (Coniothyrium). 313.
Platani (Cytospora). 267.
Platani (Diplodia). 352.

Platani (Discula). 674.
Platani (Glœosporium). 711.
Platani (Hymenula). 711.
Platani (Phyllosticta). 32.
Platani (Sphæropsis). 299.
Platani (Steganosporium). 805.
Platani (Steganosporium. Hendersonia). 440.
platanifolia (Septoria). 500.
Platanoidis (Phyllosticta). 13.
platense (Dinemasporium). 686.
platensis (Phoma). 154.
platensis (Septoria). 512.
platypus (Hendersonia). 420.
platyspora (Discula). 674.
pleosporoides (Rhabdospora). 588.
pleurochæta (Discosia). 655.
pleurospora (Dendrophoma). 178.
plumbea (Næmospora). 748.
Poæ (Leptostroma). 643.
Poæ (Septoria). 562.
Podagrariæ (Phoma). 169.
Podagrariæ (Septoria). 529.
Podisomatis (Discosia). 657.
Podocarpi (Septoria). 507.
Podophylli (Phyllosticta). 55.
podophylla (Septoria). 526.
Poinsettiæ (Phoma). 89.
polaris (Septoria). 523.
Polemonii (Septoria). 536.
polita (Rhabdospora). 589.
polychæta (Pestalozzia). 785.
polycystis (Hendersonia). 441.
Polygalæ (Septoria). 521.
polygonatea (Phoma). 161.
Polygonati (Asteroma). 214.
Polygonati (Phoma). 161.
Polygonati (Vermicularia). 234.
Polygonatum (Leptostroma). 644.
Polygoni (Hendersonia). 434.
polygonicola (Depazea). 63.
polygonina (Septoria). 554.
Polygoni-virginici (Vermicularia). 229.
Polygonorum (Phyllosticta). 54.
Polygonorum (Septoria). 555.
polygramma (Phoma). 130.
polymorphum (Camarosporium). 461.
polymorphum (Sphæronæma). 185.
polynematoides (Amerosporium). 680.
polytricha (Vermicularia). 226.
pomarii (Asteroma). 213.
Pomi (Aposphæria). 177.
Pomi (Leptothyrium). 632.
Pomi (Microsticta). 693.
pomorum (Phoma). 152.
populea (Dothichiza). 672.
populea (Dothiorella). 237.
populea (Phyllosticta). 33.
populicola (Phoma). 97.
populina (Ascochyta). 394.
populina (Diplodia). 353.
Populi (Asteroma). 208.
Populi (Cryptosporium). 742.
Populi (Leptothyrium). 627.
Populi (Marsonia). 767.
Populi (Septoria). 502.
Populi (Sphæronæma). 190.
Populi (Stagonospora). 448.
Populi (Trullula). 733.
Populi-albæ (Glœosporium). 712.
Populi-tremulæ (Myxosporium). 724.
populina (Dendrophoma). 181.
populina (Dothichiza). 672.
populina (Næmospora). 747.
populina (Phyllosticta). 33.
populinum (Coniothyrium). 312.
populinum (Melanconium). 752.
populinum (Myxosporium). 724.
populnea (Dothiorella). 237.
Populorum (Asteroma). 208.
Populorum (Phyllosticta). 33.
Populorum (Rhabdospora). 584.
Portulacæ (Phyllosticta). 52.
Potentillæ (Labrella). 648.
Potentillæ (Leptostroma). 647.
Potentillæ (Marsonia). 770.
Potentillarum (Ascochyta). 398.
Potentillarum (Septoria). 770.
potentillica (Phyllosticta). 40.
potentillica (Septoria). 510.
Potonieana (Phoma). 75.
Preussii (Diplodia). 339.
Preussii (Melanconium). 753.
Preussii (Phoma). 125.
Preussii (Phoma). 142.
Preussii (Rhabdospora). 580.
Preussii (Sphæronæma). 197.
Prillieuxiana (Aposphæria). 174.
primulicola (Phyllosticta). 56.
princeps (Rhabdospora). 584.
Prismatocarpi (Septoria). 544.
Pritchardiæ (Phoma). 157.
proboscidea (Mastomyces). 456.
procumbens (Sphæronæma). 190.

profusa (Diplodia). 336.
profusa (Phyllosticta). 44.
profusum (Didymosporium). 763.
projecta (Phoma). 126.
prominula (Stagonospora). 446.
propinquum (Camarosporium). 464.
propullulans (Sphæropsis). 294.
protracta (Phoma). 91.
protracta (Vermicularia). 235.
protuberans (Leptothyrium). 635.
protuberans (Phoma). 112.
provinciale (Sporonema). 678.
pruinosa (Dendrophoma). 179.
pruinosa (Næmospora). 748.
pruinosum (Sphæronæma). 188.
Prunellæ (Asteroma). 210.
Pruni (Diplodia). 339.
prunicola (Phoma). 107.
prunicola (Phyllosticta). 4.
prunicolum (Myxosporium). 722.
Pruni-Mahaleb (Septoria). 488.
Pruni (Septoria). 489.
Pseudacaciæ (Phoma). 69.
Pseudo-capsici (Phyllosticta). 49.
Pseudo-diplodia (Diplodia). 341.
Pseudo-phoma (Glœosporium). 704.
Pseudo-phoma (Phlyctæna). 595.
Pseudo-platani (Cytospora). 258.
Pseudo-platani (Phyllosticta). 13.
Pseudo-platani (Septoria). 478.
psilostega (Septoria). 543.
Psoraleæ (Phoma). 103.
Ptarmicæ (Leptothyrium). 635.
Ptarmicæ (Septoria). 548.
pteridina (Leptostromella). 660.
Pteridis (Glœosporium). 721.
Pteridis (Leptostroma). 645.
Pteridis (Pestalozzia). 796.
Pteridis (Sphæronæma). 198.
Pterocarpi (Diplodia). 335.
Pterocaryæ (Phyllosticta). 31.
pterophila (Phoma). 153.
pterophila (Septoria). 577.
Pubentis (Hendersonia). 422.
Puiggarii (Ascochyta). 391.
pulchella (Hendersonia). 430.
pulchella (Hendersonia). 462.
pulchella (Phoma). 86.
pulchella (Septoria). 494.
pulchrum (Cylindrosporium). 739.
pulla (Phoma). 87.
Pulmonariæ (Phyllosticta). 56.
Pulmonariæ (Septoria). 537.
pulveraceum (Cylindrosporium). 739.
pulvinatum (Coryneum). 777.
Pulviscula (Aposphæria). 175.
Pulvis-pyrius (Dendrophoma). 181.
pumila (Phoma). 107.
punctans (Vermicularia). 234.
punctata (Melasmia). 638.
punctata (Phoma). 135.
punctiforme (Asteroma). 203.
punctiforme (Amerosporium). 681.
punctiforme (Cryptosporium). 643.
punctiforme (Glœosporium). 720.
punctiforme (Leptostroma). 642.
punctiforme (Leptothyrium). 632.
punctiforme (Melanconium). 751.
punctiformis (Phoma). 145.
punctiformis (Vermicularia). 231.
punctipetiola (Diplodia). 363.
punctoidea (Septoria). 566.
punctulata (Phoma). 120.
punctulatum (Leptothyrium). 635.
Punctum (Coniothyrium). 309.
Punctum (Labrella). 649.
Punctum (Sphæropsis). 297.
pungens (Phoma). 88.
punica (Cytospora). 256.
punica (Phyllosticta). 7.
Punicæ (Asteroma). 206.
Punicæ (Diplodia). 342.
punicea (Libertella). 745.
pura (Hendersonia). 435.
purpureola (Septoria). 542.
pusilla (Phoma). 77.
pustulata (Cytospora). 267.
pustulata (Phoma). 91.
pustulata (Rhabdospora). 586.
pustulatum (Coryneum). 777.
pustulosa (Diplodia). 330.
pustulosa (Phyllosticta). 15.
Putaminum (Aposphæria). 177.
putator (Phoma). 97.
putredinis (Collacystis). 616.
putredinis (Melanconium). 756.
Pyracanthæ (Asteroma). 206.
pyrenoides (Glœosporium). 717.
pyrenophora (Botryodiplodia). 380.
pyrenophora (Dothiorella). 238.

quadriseptata (Stilbospora). 772.
Quamoclit (Phyllosticta). 50.
quaternatum (Camarosporium). 467.

quercella (Diplodiella). 376.
quercella (Phoma). 96.
Querceti (Septoria). 505.
quercicola (Septoria). 505.
quercifolia (Chætophoma). 199.
quercina (Cytospora). 264.
quercina (Cytospora). 265.
quercina (Dichæna). 680.
quercina (Diplodia). 354.
quercina (Discula). 675.
quercina (Dothiorella). 240.
quercina (Hendersonia). 441.
quercina (Phoma). 96.
quercina (Schizothyrella). 690.
quercina (Septoria). 504.
Quercuum (Ascochyta). 393.
quercinum (Coniothyrium). 312.
quercinum (Fusicoccum). 248.
quercinum (Glœosporium). 714.
quercinum (Leptothyrium). 628.
quercinum (Phragmotrichum). 807.
Quercus (Ascochyta). 393.
Quercus (Camarosporium). 464.
Quercus (Cytospora). 264.
Quercus (Diplodia). 354.
Quercus (Phoma). 108.
Quercus (Phyllosticta). 34.
Quercus-ilicis (Phyllosticta). 35.
Quercus-rubræ (Phyllosticta). 35.
Quercus (Psilospora). 680.
Quercus (Septoria). 504.
quernea (Phyllosticta) 35.
quernum (Glœosporium). 714.
quevillensis (Septoria). 512.

Rabenhorstii (Plenodomus). 185.
rabiei (Zythia). 397.
Radula (Diplodia). 371.
Radula (Phoma). 94.
Radula (Rhynchophoma). 414.
radiata (Phoma). 145.
radiatum (Asteroma). 204.
radicina (Diplodia). 350.
radiciperda (Diplodia). 341.
radiosum (Asteroma). 408.
Ralfsii (Phoma). 113.
Ralfsii (Septoria). 558.
rameale (Sporonema). 678.
ramealis (Phoma). 71.
ramealis (Pestalozzia). 801.
ramealis (Rhabdospora). 580.
ramulorum (*Hymenula*). 716.
ramulorum (Melanconium). 754.
Ranunculaccarum (Septoria). 523.
Ranunculi (Cylindrosporium). 737.
Ranunculi (Phyllosticta). 37.
Ranunculi (Septoria). 523.
ramulicola (Diplodia). 333.
Ranunculorum (Phyllosticta). 37.
raripila (Cætomella). 322.
rarissima (Septoria). 556.
Raui (Phoma). 143.
Raui (Stagonospora). 456.
Ravenelii (Botryodiplodia). 378.
Ravenelii (Diplodia). 363.
Ravenelii (Septoria). 489.
recta (Septoria). 507.
rectispora (Vermicularia). 224.
recurvispora (Excipulina). 689.
relicina (Vermicularia). 234.
religiosa (Vermicularia). 225.
Renouana (Phyllosticta). 60.
resecans (Sphæropsis). 82.
resurgens (Diplodia). 335.
reticulatum (*Glœosporium*). 719.
revellens (Phoma). 99.
rhabdosporum (Cylindrosporium). 739.
rhamnella (Septoria). 481.
Rhamni (Dichomera). 471.
Rhamni (Phyllosticta). 14.
Rhamni (Septoria). 481.
Rhamni-catharticæ (Septoria). 482.
Rhamni (Sphæronæma). 194.
rhamnicola (Hendersonia). 421.
rhamnicola (Phoma). 71.
rhamnicola (Phyllosticta). 14.
rhamnigena (Phyllosticta). 14.
rhamnigena (Septoria). 481.
Rhapontici (Septoria). 555.
Rheea (Diplodia). 369.
Rheea (Phoma). 140.
rhenana (Phyrenochæta). 220.
Rhinanthi (Sphæronæma, Sphæria). 155.
Rhinanthi (Zythia). 615.
Rhynchosporæ (Septoria). 569.
Rhynchosiæ (Ascochyta). 398.
rhodocarpa (Diplodia). 362.
Rhododendri (Aposphæria). 171.
Rhododendri (Coryneum). 780.
Rhododendri (Dendrophoma). 178.
Rhododendri (Diplodia). 363.
Rhododendri (Hendersonia). 429.
Rhododendri (Phyllosticta). 23.
Rhododendri (Septoria). 494.

rhodophæum (Dinemasporium). 683.
rhodophila (Cytospora). 253.
rhodophila (Phoma). 98.
rhodosperma (Phoma). 142.
Rhoidis (*Nemaspora*). 723.
rhoina (Cytospora). 257.
rhoina (Diplodia). 335.
rhoina (Hainesia). 699.
rhoina (Phyllosticta). 17.
rhoina (Septoria). 483.
rhoinum (Asteroma). 207.
rhoinum (Camarosporium). 464.
rhoinum (Leptostroma). 640.
Rhois (Diplodia). 334.
Rhois (Glœosporium). 704.
Rhois (Myxosporium). 723.
Rhois (Phoma). 85.
Rhois (Phyllosticta). 17.
Rhois (Septoria). 483.
Rhois (Sphæronæma). 189.
ribesia (Phoma). 88.
ribicola (Phyllosticta). 17.
ribicola (Rhabdospora). 579.
Ribis (Cryptosporium). 743.
Ribis (Cytospora). 273.
Ribis (Diplodia). 344.
Ribis (Dothiorella). 236.
Ribis (Fuckelia). 244.
Ribis (Glœosporium). 706.
Ribis (Haplosporella). 324.
Ribis (Septoria). 491.
Ricini (Diplodia). 369.
Ricini (Phoma). 141.
Riessii (Glœosporium). 715.
rigida (Phoma). 104.
rimincola (Phoma). 93.
rimiseda (Phoma). 78.
rimosa (Hendersonia). 438.
rimosa (Phoma). 165.
riparia (Hendersonia). 436.
riparia (Septoria). 567.
Robergeana (Phoma). 89.
Robergei (Glœosporium). 712.
Robiniæ (Ascochyta). 385.
Robergii (Asteroma). 210.
Robiniæ (Camarosporium). 459.
Robiniæ (Cytospora). 271.
Robiniæ (Dinemasporium). 685.
Robiniæ (Phoma). 69.
Robiniæ (Phyllosticta). 10.
Robiniæ (Septoria). 484.
Robiniæ (Sphæronæma). 194.
Rosaccarum (Labrella). 649.
Rosæ (Actinonema). 408.
Rosæ (Diplodia). 338.
Rosæ (Trullula). 733.
Rosæ (Libertella). 745.
Rosæ (Myxosporium). 723.
Rosæ (Pestalozzia). 786.
Rosæ (Phoma). 76.
Rosæ (Pyllosticta). 9.
Rosæ (*Scimatosporium*). 775.
Rosæ (Septoria). 485.
Rosæ-arvensis (Septoria). 486.
Rosarum (Camarosporium). 462.
Rosarum (Coniothyrium). 307.
Rosarum (Cytospora). 253.
Rosarum (Diplodia). 338.
Rosarum (Leptothyrium). 628.
Rosarum (Phoma). 77.
Rosarum (Septoria). 486.
Rosarum (Sphæropsis). 294.
roseola (Micropera). 606.
rosicola (Ascochyta). 386.
rosicola (*Sporocadus*). 439.
rosicola (*Sporocadus*). 775.
Rosmarini (Coutureа). 442.
Rosmarini (Phoma). 92.
rostrata (Hendersonia). 426.
rostrata (Cytosporina). 601.
rostrata (Pestalozzia). 788.
rostrata (*Sphærocista*). 197.
rostratum (Sphæronæma). 195.
Roumeguerii (Camarosporium). 469.
Roumeguerii (Diplodia). 340.
Roumeguerii (Phoma). 103.
Roumeguerii (Phyllosticta). 16.
rubellum (Coniothyrium). 315.
rubescens (Cytospora). 253.
Rubi (Asteroma). 202.
Rubi (Blennoria). 730.
Rubi (Coryneum). 775.
Rubi (Cytospora). 252.
Rubi (Diplodia). 339.
Rubi (Hainesia). 699.
Rubi (Hendersonia). 424.
Rubi (Leptothyrium). 629.
Rubi (Leptostroma). 640.
Rubi (Septoria). 486.
Rubi (*Sporocadus*). 339.
Rubiaccarum (Actinonema). 409
Rubiæ (Phoma). 137.
rubicola (Diplodia). 339.
rubicola (Phyllosticta). 8.

rubicola (Sphæropsis). 294.
rubicolum (Camarosporium). 462.
rubida (Micropera). 604.
Ruborum (Phoma). 76.
Ruborum (Phyllosticta). 8.
rubra (Polystigmina). 622.
rudis (Diplodia). 337.
rudis (Phoma). 68.
rudis (Rabenhorstia). 243.
rufa (Aschersonia). 619.
rufa (Næmospora). 748.
rufa (Sphæronæmella). 618.
rufo-maculans (Ascochyta). 395.
rugosa (Discula). 675.
rugosum f. *Fagi* (*Hysterium*). 680.
rugulosa (Discosia). 655.
rumicincola (Excipula). 669.
rupestris (Hendersonia). 433.
Rusci (Blennoria). 731.
Rusci (Diplodia). 370.
Rusci (Leptostroma). 647.
Rusci (Phoma). 162.
Rusci (Sphæropsis). 304.
ruscicola (Hendersonia). 436.
ruscicola (Phyllosticta). 58.
Russellii (Myxosporium). 722.
rutæcola (Diplodia). 367.
ruthenica (Weinmannodora). 325.
Ryckholtii (Phoma). 70.

Sabal (Chætophoma). 201.
Sabaleos (Hendersonia). 434.
Sabaleos (Phoma). 157.
Saccardiana (Cytospora). 270.
Saccardiana (Hendersonia). 431.
Saccardiana (Septoria). 482.
Saccardiana (Sphæropsis). 292.
Saccardoi (Pestalozzia). 797.
Saccardoi (Phyllosticta). 23.
Sacchari (Phoma). 166.
Sagittariæ (Depazea, Phyllosticta). 65.
salicella (Cytospora). 260.
salicella (Diplodia). 361.
salicella (Rhabdospora). 585.
salicellum (Myxosporium). 724.
salicicola (Septoria). 502.
salicina (Dichomera). 471.
salicina (Hendersonia). 425.
salicina (Phoma). 97.
salicina (Septoria). 502.
salicinum (Camarosporium). 465.
salicinum (Coryneum). 777.
salicinum (Myxosporium). 724.
salicinum (Septoglœum). 802.
Salicis (Asteroma). 208.
Salicis (Cytospora). 261.
Salicis (Diplodina). 411.
Salicis (Glœosporium). 711.
Salicis (Phoma). 97.
Salicis (Septoria). 502.
Salliæ (Septoria). 478.
salsa (Phoma). 139.
Salviæ (Septoria). 540.
samaricola (Phoma). 153.
samararum (Phoma). 153.
Samararum (Sphæropsis). 153.
Sambac (Septoria). 494.
sembucella (Phoma). 71.
Sambuci (Ascochyta). 387.
Sambuci (Dendrophoma). 178.
Sambuci (Hendersonia). 422.
Sambuci (Phyllosticta). 19.
Sambuci (Sacidium). 651.
Sambuci (Sphæropsis). 297.
sambucicola (Phyllosticta). 19.
sambucina (Diplodia). 345.
sambucina (Phoma). 71.
sambucina (Septoria). 492.
sambucina (Sphæropsis). 297.
Sanguisorbæ (Glœosporium). 706.
sanguinea (Phyllosticta). 6.
sanguineum (Melanconium). 754.
Sapii (Sphæropsis). 301.
sapinea (Diplodia). 356.
Saponariæ (Ascochyta). 398.
Saponariæ (Coniothyrium). 316.
Saponariæ (Phyllosticta). 43.
Saponariæ (Septoria). 516.
sarmenticia (Ascochyta). 387.
sarmentella (Phoma). 140.
sarmenticia (Phoma). 136.
sarmenticia (Septoria). 574.
sarmenticium (Camarosporium) 463.
sarmenticium (Glœosporium). 716.
sarmenticola (Sphæropsis). 301.
sarmentorum (Diplodia). 365.
sarmentorum (Hendersonia). 420.
Sarothamni (Coniothyrium). 308.
Sarothamni (Cytospora). 272.
Sarothamni (Diplodia). 337.
Sarothamni (Phoma). 68.
Sarraceniæ (Peckia). 218.
Sassafras (Melanconium). 752.
Sassafras (Phyllosticta). 18.

Sassafras (Sphæropsis). 296.
Saubinetii (Dichomera). 471.
Saussureæ (Septoria). 547.
Saxifragæ (Septoria). 527.
Saxifragarum (Phoma). 145.
scabella (Phoma). 84.
Scabiosæ (Ascochyta). 400.
Scabiosæ (*Ascochyta*). 553.
scabiosicola (Septoria). 553.
scabra (Diplodia). 355.
scabra (Phoma). 94.
scabrosa (Botryodiplodia). 378.
scapisedum (Coniothyrium). 316.
scandens (Ascochyta). 395.
scandentium (Vermicularia). 230.
Scandicis (Rhabdospora). 589.
Sceptri (Phoma). 129.
Sceptri (Rhabdospora). 590.
Scheidweileri (Cytosporella). 251.
Scheidweileri (Diplodia). 330.
Scheidweileri (Phoma). 92.
Schelliana (Ascochyta). 401.
Schelliana (Septoria). 532.
Schini (Phyllosticta). 27.
Schizoderma (Hypodermium). 729.
schizothecioides (Aposphæria). 177.
Schœnoprasi (Vermicularia). 233.
Schulzeri (Fusicoccum). 247.
Schweinfurthianum (Glœosporium). 703.
Schweinitzii (Cytospora). 261.
Scillæ (Septoria). 571.
Scirpi (Septoria). 567.
scirpicola (Phyllosticta). 61.
scirpinum (Leptostroma). 644.
Scirpoidis (Septoria). 568.
Scleranthi (Septoria). 518.
Scolopendrii (Septoria). 576.
Scolymi (Septoria). 550.
Scopariæ (Septoria). 558.
Scorodoniæ (Leptothyrium). 634.
Scorodoniæ (Septoria). 540.
Scortechinii (Actinothecium). 639.
scripta (*Sphæropsis*). 242.
scriptum (Leptostroma). 640.
Scrophulariæ (Coniothyrium). 316.
Scrophulariæ (Cylindrosporium). 739.
Scrophulariæ (Phyllosticta). 46.
Scrophulariæ (Septoria). 534.
scrophularinea (Phyllosticta). 46.
scutatum (Coniothyrium). 312.
Scutellariæ (Septoria). 539.
scutiforme (Leptothyrium). 635.
Secalis (Diplodia). 373.
Secalis (Melanconium). 759.
Sedi (Placosphæria). 245.
Sedi (Septoria). 527.
sedicola (Diplodia). 367.
seiridioides (Pestalozzia). 799.
semiimmersa (Phoma). 78.
seminalis (Phoma). 149.
seminalis (Septoria). 478.
seminicola (Pyrenochæta). 220.
semipellitum (Sphæronæma). 191.
Senecionis (Ascochyta). 400.
Senecionis (Septoria). 549.
Senecionis (Stagonospora). 447.
sepincola (Phoma). 77.
sepium (Septoria). 537.
seposita (Phoma). 68.
septorioides (Leptostromella). 660.
septorioides (Phlyctæna) 594.
sepulta (Aposphæria). 172.
seriata (Aposphæria). 175.
seriata (Diplodia). 339.
seriata (Phoma). 90.
seriata (Sphæropsis). 296.
seriatum (Sphærographium). 598.
serotina (Phyllosticta). 4.
Serratulæ (Septoria). 551.
sessilis (Hendersonia). 436.
sessilis (Robillarda). 408.
Sibbaldiæ (Labrella). 648.
sibirica (Septoria). 491.
sibirica (Stagonospora). 448.
sibiricum (Glœosporium). 712.
sibiricum (Leptothyrium). 630.
sicula (Septoria). 478.
Sidæ (Diplodia), 366.
Sii (Septoria). 529.
Silenes (Septoria). 516.
silenicola (Septoria). 516.
siliquæ (Phoma). 153.
siliquarum (Phoma). 153.
Siliquastri (Ascochyta). 385.
Siliquastri (Cytosporina). 601.
Siliquastri (Diplodia). 336.
Siliquastri (Pestalozzia). 786.
Siliquastri (Phoma). 68.
Siliquastri (Phyllosticta). 9.
Siliquastri (Septoria). 484.
Siliquastrum (Phoma). 154.
Silphii (Vermicularia). 229.
silvatica (Phoma). 128.
silvatica (Septoria). 563.

silvaticum (Coniothyrium). 316.
silvestris (Septoria). 510.
silvicola (Septoria). 522.
Silybi (Septoria). 550.
simillima (Septoria). 476.
simplex (Septoria). 560.
simulans (Phlyctæna). 595.
Sinarum (Septoria). 517.
Siphonis (Vermicularia). 231.
Sisonis (Septoria). 530.
Sisymbrii (Septoria). 520.
smilacina (Discosia). 656.
smilacina (Diplodia). 370.
smilacina (Marsonia). 771.
smilacicola (Depazea). 65.
smilacina (Phoma). 160.
smilacina (Septoria). 574.
Smilacinæ (Septoria). 574.
Smilacis (Coryneum). 780.
Smilacis (Seridium). 783.
Smilacis (Leptostroma). 644.
Smilacis (Phlyctæna). 596.
Smilacis (Stagonospora). 450.
socia (Septoria). 549.
socialis (Ascochyta). 405.
sociata (Sphæropsis). 294.
socium (Coniothyrium). 319.
sojina (Septoria). 509.
Solani (Haplosporella). 324.
Solani (Hendersonia). 433.
Solani (Phyllosticta). 49.
Soldanellæ (Septoria). 532.
Solidaginis (Rhabdospora). 591.
Solidaginis (Septoria). 546.
Solierii (Phoma). 161.
Sonchi (Phyllosticta). 44.
Sonchi (Septoria). 552.
sonchifolia (Septoria). 552.
sonchina (Septoria). 552.
Sophoræ (Diplodia). 335.
Sophoræ (Phoma). 67.
Sorbariæ (Phoma). 75.
Sorbi (Diplodia). 342.
Sorbi (Dothichiza). 671.
Sorbi (Micropera). 605.
Sorbi (Phoma). 107.
Sorbi (Phyllosticta). 8.
Sorbi-hybridæ (Septoria). 488.
Sorbi (Sphæronæma). 186.
sorbina (Dothiorella). 237.
sordida (Phoma). 99.
sordida (Phoma). 144.
sordidula (Septoria). 548.
Sorghi (Ascochyta). 406.
Sorghi (Depazea, Phyllosticta). 65.
sorghina (Ascochyta). 406.
sorghina (Phyllosticta). 61.
Sparganii (Hendersonia). 435.
Sparganii (Septoria). 569.
Sparganii (Stagonospora). 451.
sparsa (Diplodia). 368.
sparsa (Septoria). 511.
sparsum (Hypodermium). 729.
Spartii (Phoma). 67.
Spartii (Trullula). 732.
Specularіæ (Septoria). 544.
specularina (Septoria). 544.
Spegazziniana (Diplodia). 338.
Spegazzinianum (Sacidium). 650.
Spegazzinii (Septoria). 531.
speirea (*Depazea*). 693.
speireum (*Perisporium*). 693.
Spergulæ (Septoria). 518.
sphærelloides (Glæosporium). 709.
sphæricum (Sphæronæma). 195.
sphæroboloidea (Lichenopsis). 443.
sphærocephala (Cytospora). 257.
sphærioides (Botryodiplodia). 379.
sphæroidea (Cornularia). 599.
sphæroides (Excipula). 667.
sphæroides (Leptostroma). 646.
sphæroideum (Melanconium). 755.
sphærosperma (Cytosporella). 252.
sphærosperma (Dichomera). 472.
sphærospermum (Coniothyrium). 308.
sphærosporum (Cytosporium). 470.
sphærospermum (Melanconium). 759. 760.
sphærospora (Phoma). 94.
Sphærula (Cytospora). 277.
Spina (Sphæronæma). 188.
Spinaciæ (Septoria). 555.
Spinella (Sphæronæma). 191.
spiniforme (Sphæronæma). 188.
Spirææ (Diplodia). 342.
Spirææ (Excipula). 666.
Spirææ (Leptostroma). 646.
Spirææ (Phoma). 132.
spiræina (Diplodia). 342.
Splitgerberi (Phyrenotrichum). 184.
spurca (Diplodia). 338.
spurium (Sphæronæma). 186.
squarrosum (Sphærographium). 597.
Squiciæ (Sphæropsis). 302.
Stachydis (Septoria). 539.

Stanhopeæ (Pyrenochæta). 219.
Stapeliæ (Phoma). 139.
Staphyleæ (Diplodia). 333.
Staphyleæ (Septoria). 481.
Staphyleæ (Stilbospora). 773.
Staphyleæ (Vermicularia). 222.
Staphysagriæ (Septoria). 525.
stellare (Prosthemium). 444.
Stellariæ (Excipula). 669.
Stellariæ (Leptostroma). 647.
Stellariæ (Placosphæria). 245.
Stellariæ (Septoria). 518,
Stellariæ-nemorosæ (Septoria). 518.
stellata (Pestalozzia). 787.
Stellatarum (Placosphæria). 245.
stellatum (Sphærographium). 598.
stelligera (Phoma). 168.
stellulata (Cytospora). 259.
stellulata (Cytosporina). 602.
stemmatea (Septoria). 493.
stenospora (Cytospora). 259.
stenospora (Cystotricha). 414.
stenospora (Diplodina). 411.
stenostoma (Aposphæria). 172.
Stephensii (Camarosporium). 469.
Stevensoni (Chætomella). 322.
Sterculiæ (Phyllosticta). 28.
stercoraria (Phoma). 169.
Stevensonii (Pestalozzia). 792.
stictica (Corularia). 94.
stictica (Pestalozzia). 793.
stictica (Phoma). 89.
stictina (Phoma). 94.
Stigma (Phoma). 131.
Stigma (Septoria). 494.
Stigmaphylli (Phyllosticta). 36.
stigmatella (Sphæria). 653.
stigmea (Phoma). 103,
stigmospora (Aposphæria). 172.
stilbosporoides (Thyrsidium). 762.
stipatum (Leptostroma). 647.
stipularis (Septoria), 510.
Strelitziæ (Phoma). 162.
striæforme (Hypoderma). 645.
striæformis (Phoma). 131.
Striola (Cystotricha). 414.
Striola (Didymosporium). 763.
striolata (Phoma). 157.
strigosum (Dinemasporium). 683.
Strobi (Excipula). 668.
Strobi (Phoma). 101.
strobilaria (Phoma). 150.
strobilicola (Pestalozzia). 792.
strobiligena (Phoma). 150.
strobilina (Discosia). 656.
strobilina (Gerulajacta). 150.
strobilina (Pleosporopsis). 693.
strobilina (Stagonospora). 450.
strobilinum (Sporonema). 678.
strobilinus (Sirococcus). 217.
Stroma (Melanconium). 755.
stromatica (Dichomera). 472.
stromatica (Dothiorella). 237.
stromaticum (Melanconium). 750.
subcalva (Excipula). 666.
subconfluens (Phoma). 124.
subcorticale (Sphæronæma). 191.
subcorticalis (Ceuthospora). 278.
subcrustacea (Aposphæria). 177.
subeffigurata (Vermicularia). 230.
suberina (Aposphæria). 177.
suberina (Diplodia). 354.
subfenestratum (Camarosporium). 459.
subglabra (Vermicularia). 228.
subglobata (Diplodia). 357.
subglobosa (Sphæropsis). 303.
sublineatum (Coniothyrium). 308.
sublineolata (Septoria). 570.
subnervisequa (Phoma). 113.
subpilosum (Sphæronema). 190.
subolivaceum (Coniothyrium). 316.
subordinaria (Phoma). 136.
subradicale (Coniothyrium). 311.
subseriata (Hendersonia). 437.
subseriata (Stagonospora). 454.
subsessilis (Pestalozziella). 737.
subsolitaria (Diplodia). 334
subtecta (Diplodia). 331.
subtectum (Leptothyrium). 636.
subtile (Sphæronæma). 170.
subtile (Sphæronæma). 196.
subtilis (Aposphæria). 171.
subtilis (Aposphæria). 177.
subtilis (Diplodia). 351.
subvelata (Phoma). 148.
succedanea (Phoma). 110.
succineum (Glœosporium). 708.
succisicola (Septoria). 553.
sulcigenum (Hypodermium). 729.
sulphureum (Myxosporium). 725.
Sumachi (Sphæropsis). 295.
superflua (Phoma). 139.
Surinamensis (Phoma). 163.
suseganense (Camarosporium). 468.

sycina (Cytospora). 251.
sycina (Diplodia). 350.
syconophilum (Coniothyrium). 312.
sycophila (Phyllosticta). 32.
sycophilum (Melanconium). 754.
Symploci (Hendersonia). 425.
Symploci (Sacidium). 651.
Symploci (Septoria). 494.
Symphoricarpi (Diplodia). 345.
Symphoricarpi (Phyllosticta). 19.
syriaca (Diplodia). 330.
Syriaca (Phyllosticta). 27.
Syringæ (Diplodia). 346.
Syringæ (Dothiorella). 239.
Syringæ (Cytospora). 272.
Syringæ (Hendersonia). 421.
Syringæ (*Phoma*). 82.
Syringæ (Phyllosticta). 22.
Syringæ (Septoria). 495.
Syringæ (Sphæropsis). 298.
syringella (Phoma). 112.
syringica (Phoma). 82.
syringina (Phoma). 82.

Tabaci (Phyllosticta). 48.
Tagana (Phoma). 143.
tahitensis (Aschersonia). 619.
Taleola (Libertella). 745.
Taleola (Myxosporium). 726.
tamaricaria (Phoma). 93.
tamaricella (Phoma). 93.
tamaricina (Diplodia). 343.
tamaricina (Phoma). 93.
Tamaricis (Diplodia). 343.
Tamarisci (Phoma). 94.
Tami (Phyllosticta). 58.
Tami (Septoria). 574.
Tanaceti (Septoria). 546.
Tandilensis (Phoma). 77.
taphrinum (Steganosporium). 805.
tarda (Pyrenochæta). 221.
Tatulæ (Phoma). 128
Taxi (Cytospora). 271.
Taxi (Diplodia). 359.
Taxi (Melanconium). 756.
Taxi (Micropera). 606.
Taxi (Phoma). 102.
Tami (Phoma). 594.
Tecomæ (Ascochyta). 395.
Tecomæ (Coryneum). 775.
Tecomæ (Diplodia). 347.
Tecomæ (Diplodiella). 377.
Tecomæ (Hendersonia). 425.
Tecomæ (Phoma). 91.
Tecomæ (Phyllosticta). 28.
Tecomæ (Pestalozzia). 799.
tecta (Diplodia). 363.
tenella (Micropera). 606.
tenella (Septoria). 562.
tenuis (Diplodia). 343.
tenuis (Leptostromella). 660
tenuispora (Discula). 677.
tenuissima (Næmospora). 748.
tenerrima (Ascochyta). 388.
tenerrimum (Asteroma). 212.
tephrospora (Sphæropsis). 292.
tephrostoma (Diplodia). 350.
teretiuscula (Ascochyta). 405.
tertia (Phoma). 95.
Teucrii (Phyllosticta). 49.
Teucrii (Septoria). 541.
Thalictri (Leptothyrium). 634.
thalictrina (Phoma). 118.
thecicola (Septoria). 577.
thecicola (Vermicularia). 235.
theicola (Hendersonia). 427.
thelebola (Stilbospora). 771.
Thermopsidis (Phyllosticta). 57.
Thalictri (Phyllosticta). 37.
Therryana (Dendrophoma). 180.
Thomasiana (Marsonia). 768.
Thümeniana (Rhabdospora). 587.
Thümenii (Asteroma). 210.
Thümenii (Entomosporium). 657.
Thümenii (Glœosporium). 721.
Thümenii (Pestalozzia). 789.
Thümenii (Septoria). 498.
Thujæ (Cytospora). 271.
Thujæ (Diplodia). 359.
thujana (Diplodia). 356.
thujana (Phoma). 102.
thyoidea (Diplodia). 356.
thyoides (Hendersonia). 430.
Tibia (Septoria). 477.
Tiliæ (Camarosporium). 462.
Tiliæ (Cytospora). 274.
Tiliæ (Dichomera). 472.
Tiliæ (Diplodia). 330.
Tiliæ (Glœosporium). 701.
Tiliæ (Hendersonia). 424.
Tiliæ (Phyllosticta). 27.
Tiliæ (Rabenhorstia). 243.
Tiliæ (Septoria). 476.
tinctorium (Asteroma). 203.

tinea (Phoma). 87.
tinea (Phyllosticta). 16.
tincola (Phyllosticta). 16.
tineum (Glæosporium). 707.
Tini (Ascochyta). 387.
Tini (Camarosporium). 466.
Tini (Diplodia). 359.
tithymalina (Cytospora). 276.
tomipara (Rhabdospora). 581.
Tormentillæ (Phyllosticta). 40.
Tormentillæ (Septoria). 511.
Torminalis (Hendersonia). 429.
torrens (Phoma). 138.
torulosa (Dothiorella). 240.
torulosa (Pestalozzia). 795.
Toxici (Phyllosticta). 17.
Toxicodendri (Phyllosticta). 17.
tortuosum (Glœosporium) 716.
trabicola (Hendersonia). 441.
Trabutiana (Phoma). 114.
trachelina (Rynchophoma). 414.
trachelium (Sphæronæma). 414.
translucens (Cytospora). 261.
tremellina (Hainesia). 699.
Tremulæ (Ascochyta). 394.
Tremulæ (Glœosporium). 712.
Tremulæ (Myxosporium). 724.
Tremulæ (Septoria). 503.
tremulæcola (Depazea) 64.
Triacanthi (Camarosporium). 460.
Triacanthi (Phoma). 147.
trichella (Vermicularia). 224.
tricolor (Phoma). 144.
trichophila (Rhabdospora). 587.
Tricorynes (Sphæropsis). 305.
Trientalis (Depazea). 63.
Trifolii (Asteroma). 212.
Trifolii (Glœosporium). 705.
Trifolii (Rhabdospora). 586.
Trillii (Septoria). 573.
trimera (Stagonospora). 452.
triseptatum (Coryneum). 781.
Tritici (Septoria). 561.
Trollii (Ascochyta). 396.
Trollii (Septoria). 522.
Tropæoli (Phyllosticta). 39.
tropica (Trullula). 732.
truncata (Bloxamia). 735.
truncata (Cytospora). 258.
truncata (Diplodina). 411.
truncata (Pestalozzia). 794.
truncata (Vermicularia). 227.
truncatula (Marsonia). 768.
truncatula (Pestalozzia). 794.
truncatulum (Didymosporium). 794.
truncatum (Glœosporium). 708.
truncatum (Melanconium). 751.
truncatum (Sphæronæma). 193.
tuberculariodes (Glœosporium). 706.
tularostoma (Phoma). 109.
Tulasnei (Dothiorella). 239.
Tulasnei (Myxosporium). 723.
Tulasnei (Pseudopatella). 688.
Tulipiferæ (Phoma). 113.
tumida (Cytospora). 265.
tumidum (Myxosporium). 727.
Tunicæ (Rhabdospora). 587.
turbinata (Aschersonia). 619.
turbinata (Trullula). 733.
turbinatum (Thyrsidium). 762.
turgida (Catinula). 673.
turgida (Stagonospora). 447.
Tussilaginis (Septoria). 545.
Tweediana (Ascochyta). 390.
Tweediana (Phyllosticta). 28.
Typhæ (Excipula). 670.
Typhæ (Hendersonia). 435.
Typhæ (Melanconium). 759.
Typharum (Phoma). 163.
typhina (Phyllosticta). 60.
Typhoidearum (Stagonospora). 451.

uberiformis (Sphæria, Topospora). 456.
Ulicis (Diplodia). 337.
uliginosa (Septoria). 520.
Ulmariæ (Phyllosticta). 41.
Ulmariæ (Sacidium). 650.
Ulmariæ (Septoria). 511.
ulmea (Hendersonia). 419.
ulmella (Ascochyta). 393.
ulmeum (Coniothyrium). 313.
Ulmi (Asteroma). 209.
Ulmi (Macrodiplodia). 374.
Ulmi (Myxosporium). 723.
Ulmi (Phleospora). 578.
Ulmi (Phyllosticta). 33.
Ulmi (Sphæropsis). 305.
ulmicola (Aposphæria). 175.
Ulmicola (Excipula). 667.
ulmicola (Hendersonia). 440.
ulmicola (Melasmia). 638.
ulmicola (Phyllosticta). 33.
ulmicola (Sphæria). 578.
Umbellulariæ (Blennoria). 730.

Umbelliferarum (Bullaria). 766.
Umbelliferarum (Septoria). 528.
umbilicatum (Sacidium). 652.
umbonata (Aposphæria). 176.
umbonata (Ceuthospora). 280.
umbonata (Rhabdospora). 579.
umbonatum (Asteroma). 207.
umbonatum (Coryneum). 777.
umbrina (Cytospora). 259.
umbrinellum (Glœosporium). 714.
unicornis (Pestalozzia). 798.
uncinata (Vermicularia). 226.
undulata (Dothiorella). 240.
undulata (Sphæropsis). 325.
Unedonis (Ascochyta). 391.
Unedonis (Diplodia). 346.
Unedonis (Septoria). 493.
unica (Stagonospora). 449.
unicolor (Pestalozzia). 800.
uredinicola (Diplodia). 410.
Uredo (Stilbospora). 578.
urens (Septoria). 543.
Urgineæ (Septoria). 571.
uromycoides (Harknessia). 320.
Urticæ (Leptothyrium). 634.
Urticæ (Phoma). 140.
Urticæ (Phyllosticta). 53.
Urticæ (Septoria). 557.
ustulata (Phoma). 110.
utriculosa (Stilbospora). 773.
Uvariæ (Actinonema). 410.
Uvariæ (Phyllosticta). 59.
uvarum (Phoma). 149.
uvicola (Pestalozzia). 789.
uvicola (Phoma). 719.
uvicola (Phoma). 149.

Vaccinii (Coryneum). 776.
vagans (Asteroma). 204.
vagans (Discosia). 654.
vagans (Microsticta). 693.
vagans (Hendersonia). 419.
vagans (Darluca) 410.
vagabunda (Phlyctæna). 594.
vagabundum (Coniothyrium). 310.
vaginæ (Hendersonia). 438.
vaginæ (Phoma). 165.
vaginarum (Sphæropsis). 303.
valsispora (Deudrophoma). 179.
valsoidea (Sphæropsis). 299.
valsoidea (Botryodiplodia). 379.
valsoideum (Glœosporium). 716.
variabile (Camarosporium). 466.
variabilis (Discula). 676.
variegata (Septoria). 507.
varium (Melanconium). 757.
vegetans (Sacidium). 652.
velata (Phoma). 92.
venenosa (Phoma). 127.
Veneta (Pestalozzia). 799.
Venetum (Glœosporium). 706.
Venetum (Sacidium). 650.
ventricosa (Ascochyta). 394.
ventricosa (Cytospora). 265.
ventricosum (Sphæronæma). 194.
venturioidea (Vermicularia). 228.
venulosum (Asteroma). 214.
Vepris (Phoma). 76.
veratrinum (Cylindrosporium). 740.
Verbasci (Ascochyta). 402.
Verbasci (Phyllosticta). 47.
verbascicola (Phoma). 129.
verbascicola (Septoria). 533.
verbascina (Ascochyta). 402.
Verbenæ (Phyllosticta) 47.
Verbenæ (Septoria). 537.
verbenicola (Rhabdospora). 590.
vermiforme (Sporidesmium). 782.
vernicosum (Asteroma). 211.
veronensis (Sphæria). 352.
Veronicæ (Septoria). 534.
Veronicæ (Depazea, Phyllosticta). 63.
Veronicæ (Phoma). 128.
versicolor (Amphisporium). 692.
versicolor (Glœosporium). 718.
versicolor (Pestalozzia). 790.
versicolor (Sacidium). 651.
Versoniana (Zythia). 614.
Veronicarum (Glœosporium). 710.
verruciformis (Rhabdospora). 583.
verrucosum (Sphæronema). 193.
vesicatoria (Phyllosticta). 34.
vestita (Septoria). 559.
vexata (Stagonospora). 455.
vexatula (Stagonospora). 454.
Viburni (Ascochyta). 387.
Viburni (Cornularia). 600.
Viburni (Hendersonia). 421.
Viburni (Septoria). 493.
Viciæ (Phyllosticta). 43.
Viciæ (Septoria). 509.
vicina (Ascochyta). 404.
vicina (Phoma). 71.
Villarsiæ (Septoria). 541.

Vincæ (Phoma). 145.
Vincæ (Phyllosticta). 55.
Vincæ (Sphæropsis). 302.
Vincentiana (Phoma). 66.
Vincetoxici (Phoma). 155.
Vincetoxici (Phyllosticta). 52.
Vincetoxici (Septoria). 542.
vineæ (Diplodia). 332.
vineæ (Septoria). 480.
vinosa (Pyrenochæta). 220.
Violæ (Ascochyta). 397.
Violæ (Glœosporium). 701.
Violæ (Marsonia). 770.
Violæ (Phoma). 145.
Violæ (Phyllosticta). 38.
Violæ (Septoria). 518.
violicola (Septoria). 519.
Virgaureæ (Septoria). 546.
Virgiliæ (Asteroma). 208.
virginiana (Diplodia). 356.
virgultorum (Leptostroma). 639.
viridarii (Phoma). 89.
viridans (Ephelis). 691.
viride (Cryptosporium). 743.
viride (Myxosporium). 727.
viridi-tingens (Septoria). 572.
viridispora (Phoma). 165.
viridulum (Fusicoccum). 248.
Visci (Camarosporium). 463.
Visci (Phoma). 113.
Visci (Septoria). 532.
Visci (Sphæropsis). 295.
viscosum (Melanconium). 750.
Vitalbæ (Rhabdospora). 588.
Viticellæ (Septoria). 525.
viticina (Phyllosticta). 20.
viticola (Diplodia). 332.
viticola (Excipula). 667.
viticola (Phoma). 79.
viticola (Phoma). 110.
viticola (Phyllosticta). 19.
viticolum (Camarosporium). 463.
viticolum (Sphæronæma). 188.
Vitis (Cytospora). 256.
Vitis (Discosia). 676.
Vitis (Hendersonia). 423.
Vitis-silvaticæ (Hendersonia). 423.
Vitis (Phoma). 79.
Vitis (Phyllosticta). 20.
vixvisibilis (Phoma). 108.
Vossii (Phyllosticta). 626.
vulgaris (Diplodia). 370.
vulgaris (Hendersonia). 427.
vulgaris (Phoma). 119.
vulgaris (Phyllosticta). 18.
vulgare (Leptothyrium). 633.
Vulnerariæ (Ascochyta). 398.
Volkameriæ (Phoma). 88.
volubilis (Ascochyta). 404.
Volutella (Colletotrichum). 736.

Yuccæ (Diplodia). 371.
Yuccæ (Hendersonia). 435.
Yuccæ (Phoma). 159.
Yuccæ (Septoria). 572.
Yuccæ-gloriosæ (Sphæria). 572.
yuccogena (Septoria). 572.

Kalchbrenneri (Glœosporium). 708.
Kalchbrenneri (Septoria). 515.
Kalmiæ (Discula). 676.
kalmiæcola (Septoria). 499.
Karstenii (Stagonospora). 452.
Keckii (Phoma). 90.
Kennedyæ (Phyllosticta). 11.
Kerriæ (Diplodia). 339.
Kickxii (Stilbospora). 771.
Kirghisorum (Rhabdospora). 585.
Kœleriæ (Septoria). 560.
Kœlreuteriæ (Diplodia). 331.
Kœlreuteriæ (Phoma). 90.
Kunzei (Coryneum). 778.
Kunzei (Cytospora). 270.
Kunzeanum (Fusicoccum). 250.
Kurzeanum (Glœosporium). 705.

Xanthii (Septoria). 554.
xanthina (Phoma). 118.
xanthosperma (Cytospora). 262.
Xerophylli (Hendersonia). 435.
xylogrammicum (Endotrichum). 692.
xylomoides (Leptostroma). 644.
Xylostei (Camarosporium). 461.
Xylostei (Depazea). 626.
Xylostei (Phoma). 70.
Xylostei (Septoria). 492.

Wahlenbergii (Rhabdospora). 591.
Waldsteiniæ (Septoria). 511.
Wallrothii (Sporonema). 679.
Wallrothii (Vermicularia). 232.
Weigeliæ (Ascochyta). 388.
Weigeliæ (Phoma). 70.
Weigeliæ (Phyllosticta). 27.

Westendorpii (Næmospora). 748.
Westendorpii (Phoma). 145.
Westendorpii (Phyllosticta). 26.
Wigandiæ (Phyllostica). 57.
Wilsoni (Septoria). 533.
Wilsoni (Sphæropsis). 297.
Winteri (Ascochyta). 391.
Winteri (Septoria). 575.
Wistariæ (Diplodia). 335.
Wistariæ (Hendersonia). 420.
Wistariæ (Phoma). 102.
Wistariæ (Phyllosticta). 11.
Woodsiana (Melophia). 659.
Wyethiæ (Septoria). 547.

Zeæ (Asteroma). 215.
Zeæ (Sphæria, Diplodia). 373.
zeina (Ascochyta). 405.
Zizaniæ (Leptostroma). 643.
Zizyphi (Phyllosticta). 15.
Zizyphi (Septoria). 483.

EMENDANDA

Nomina quædam specifica in suis generibus bis occurrentia, sequenti modo mutanda sunt.

pag. 20 Phyllosticta viticola	lege Ph. vitea Sacc.
» 21 (n. 104) 10 = 5	» : sporulis 10 = 5.
» 73 Phoma Pini	» Ph. Harknesii Sacc.
» 110 Phoma viticola	» Ph. vitea Sacc.
» 116 Phoma maculans	» Ph. Curtisii Sacc.
» 142 Phoma Preussii	» Ph. Preussiana Sacc.
» 166 Phoma linearis	» Ph. lineata Sacc
» 174 (n. 1047) sporulis erectis	» basidiis erectis
» 177 Aposphæria subtilis	» Ap. Cordæ Sacc
» 210 Asteroma Fuckelii	» Ast. Fuckelianum Sacc.
» 341 Diplodia Licalis	» D. Lilacis West.